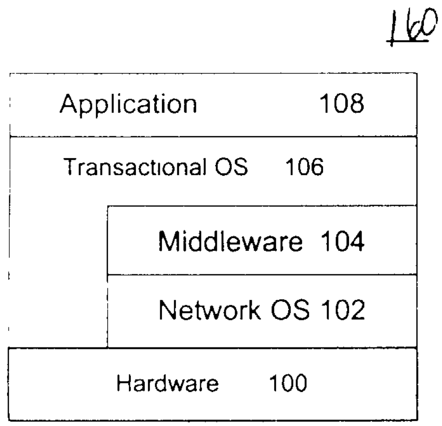


Figure 1A

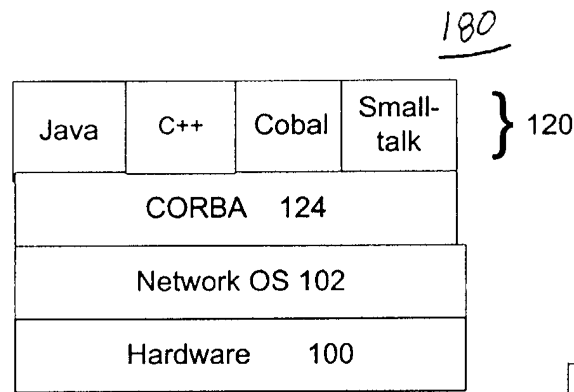


Figure 1C

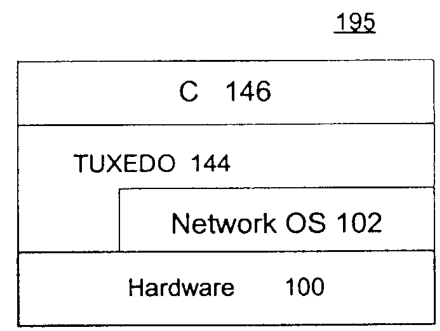


Figure 1E

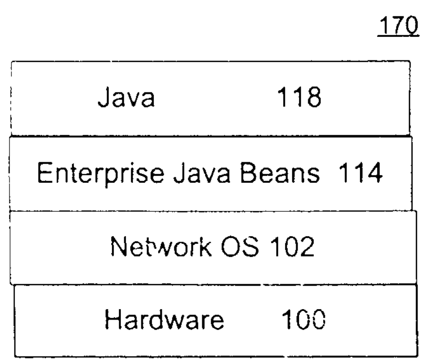


Figure 1B

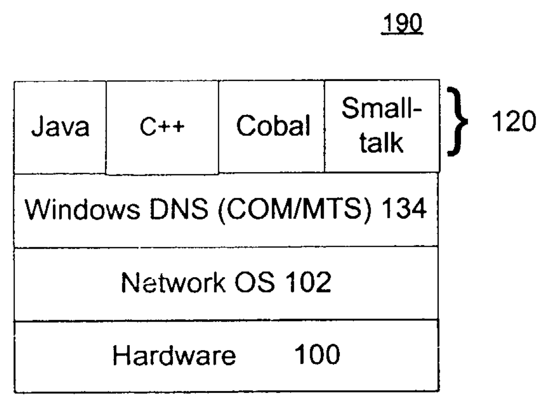
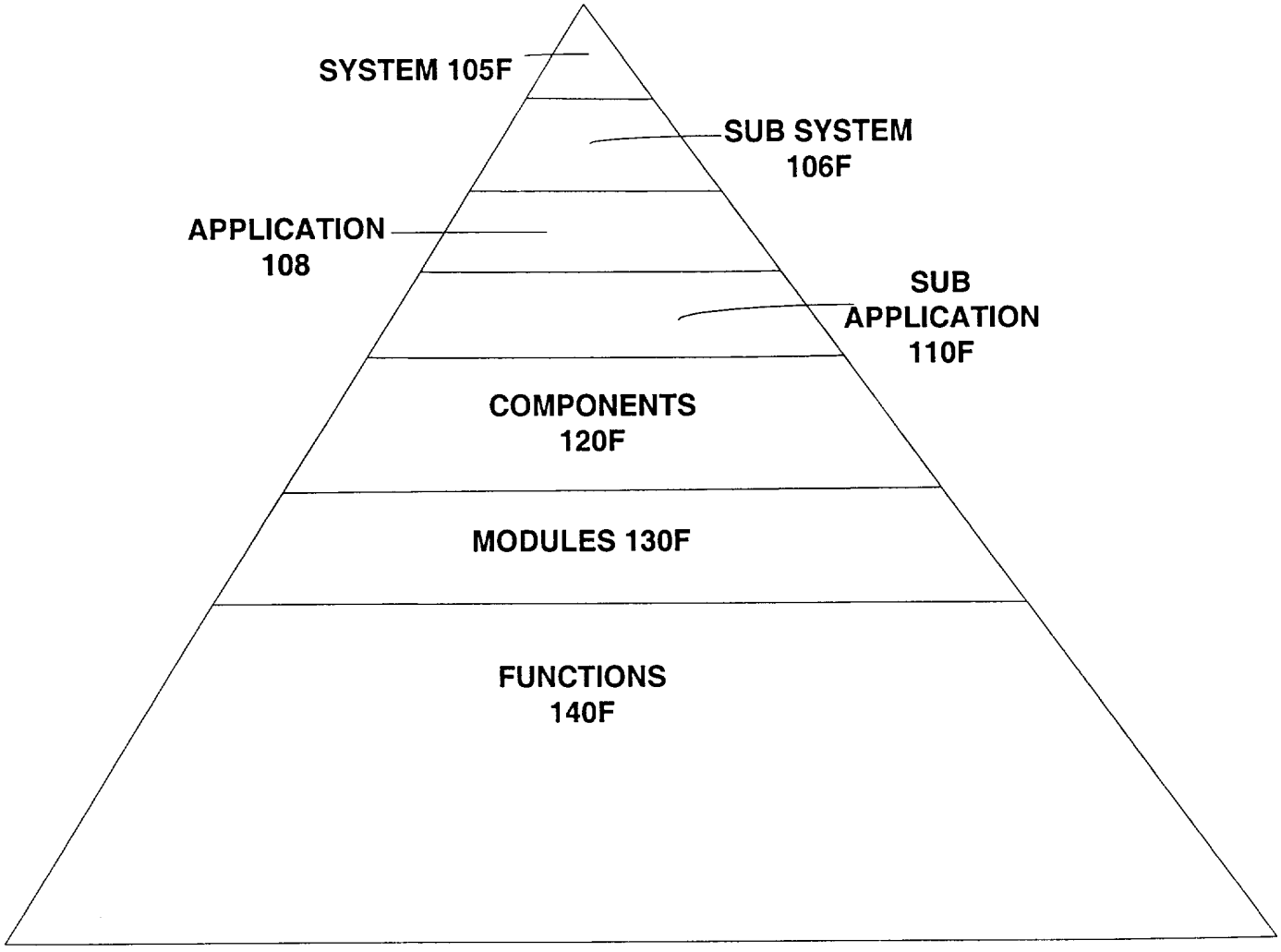


Figure 1D

100F



PRIOR
ART
FIGURE 1F

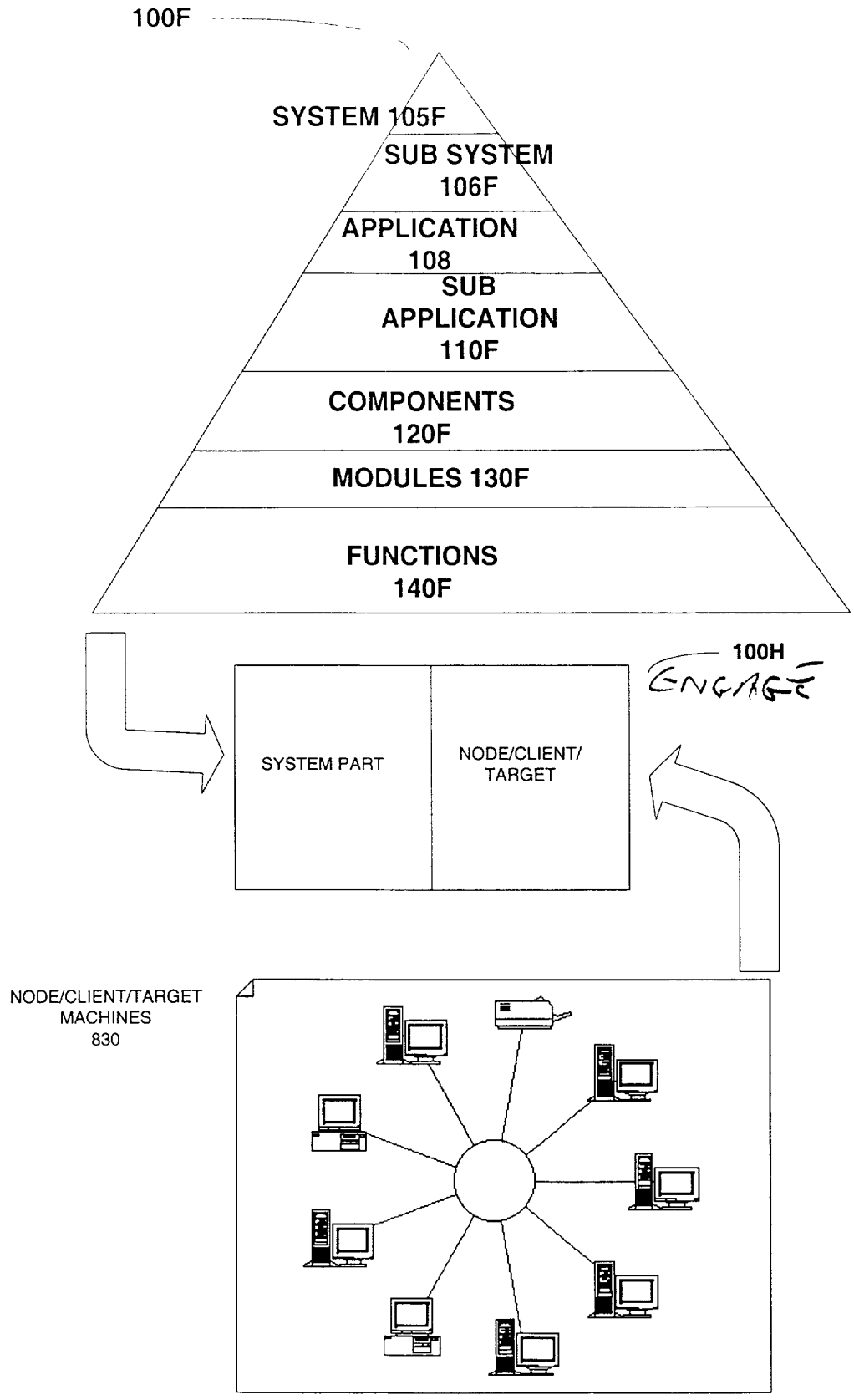

100F
SYSTEM 105F
SUB SYSTEM
106F
APPLICATION
108
SUB
APPLICATION
110F
COMPONENTS
120F
MODULES 130F
FUNCTIONS
140F
100H
ENGAGE
SYSTEM PART
NODE/CLIENT/
TARGET
NODE/CLIENT/TARGET
MACHINES
830

FIGURE
1G

100H

ENGAGEMENT
PAIR
110H

PART ID 120H	TARGET ID 130H

•
•
•

FIGURE 1H

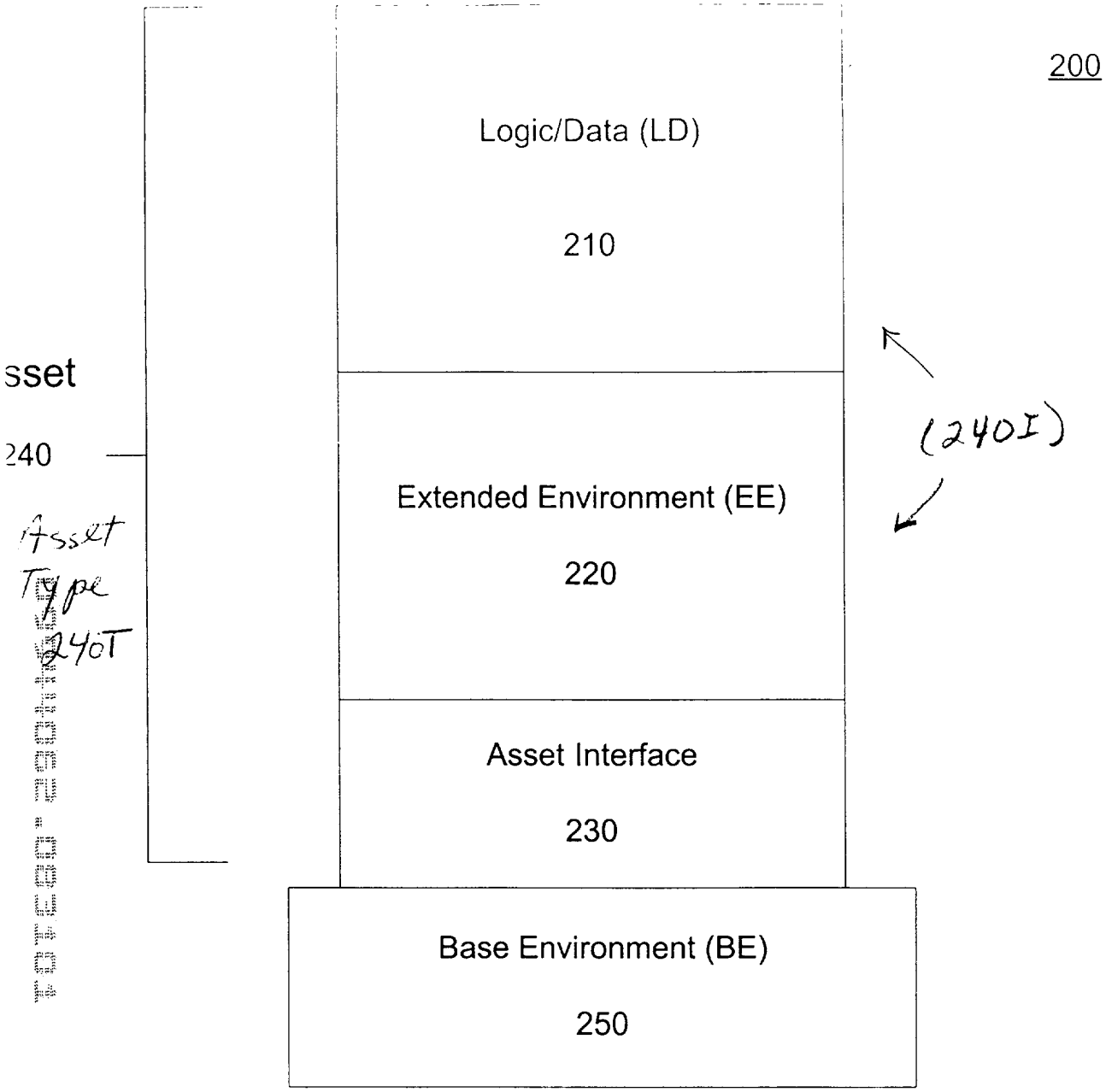
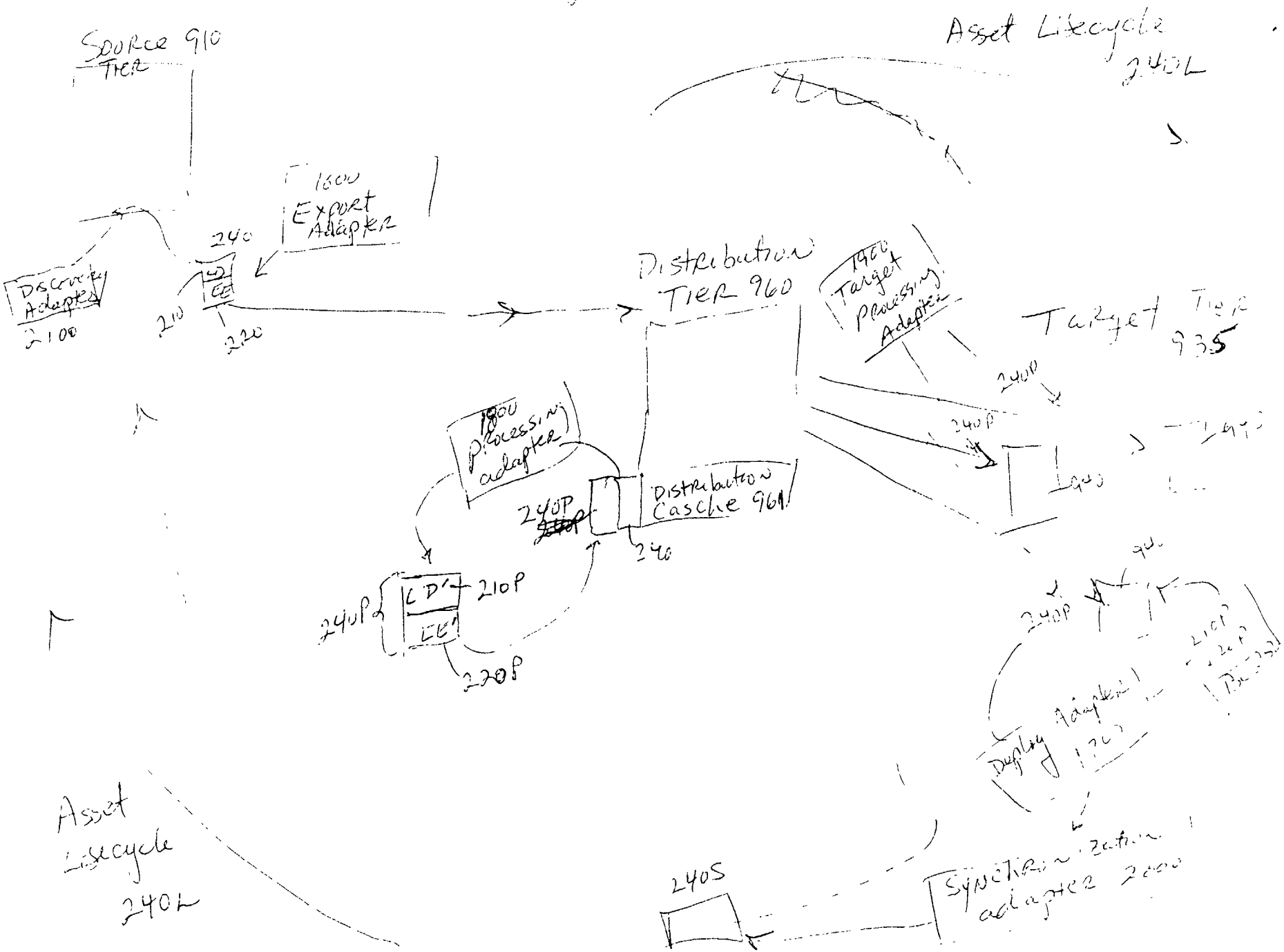

200
Logic/Data (LD)
210
Extended Environment (EE)
220
Asset Interface
230
Base Environment (BE)
250
(240I)
sset
240
Asset Type 240T

Figure 2

Figure 9A


Source 910
Tier
Asset Lifecycle
240L
1600
Export
Adapter
240
Discovery
Adapter
2100
210
220
LD
LE
Distribution
Tier 960
1900
Target
Processing
Adapter
Target Tier
935
240P
1800
Processing
adapter
Distribution
Cache 961
240P
LD'
LE'
210P
220P
Asset
Lifecycle
240L
240S
Synchronization
adapter 2400

220

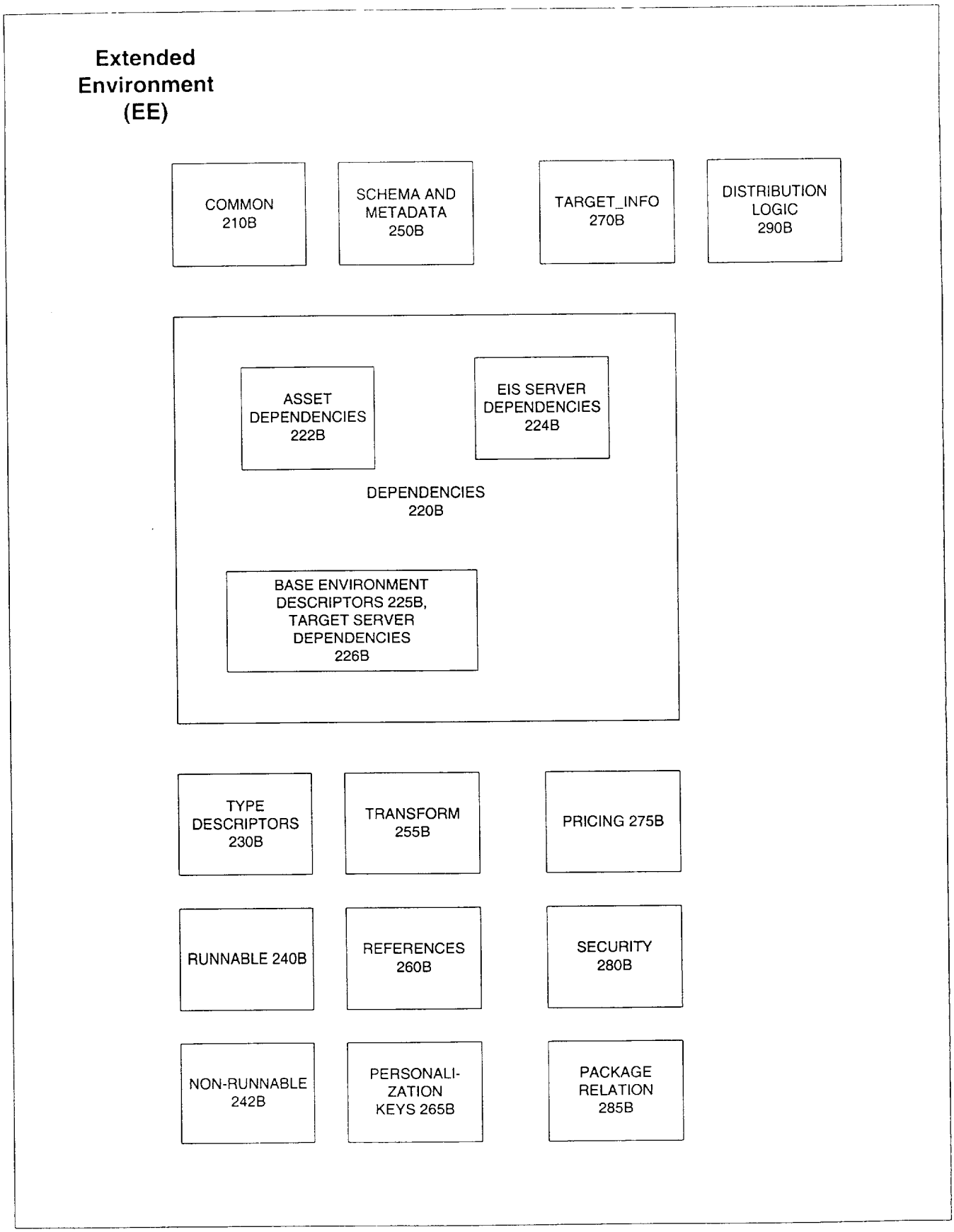


FIGURE 2B

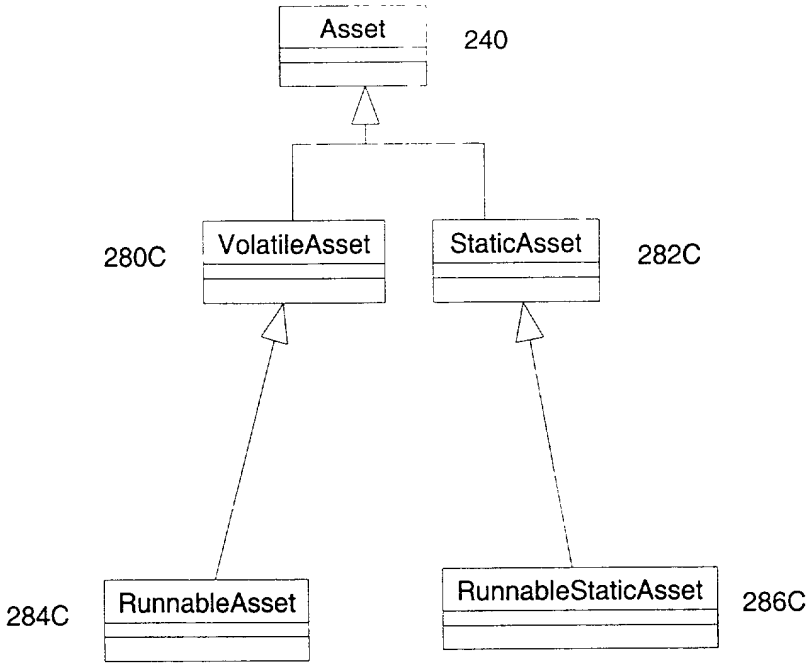
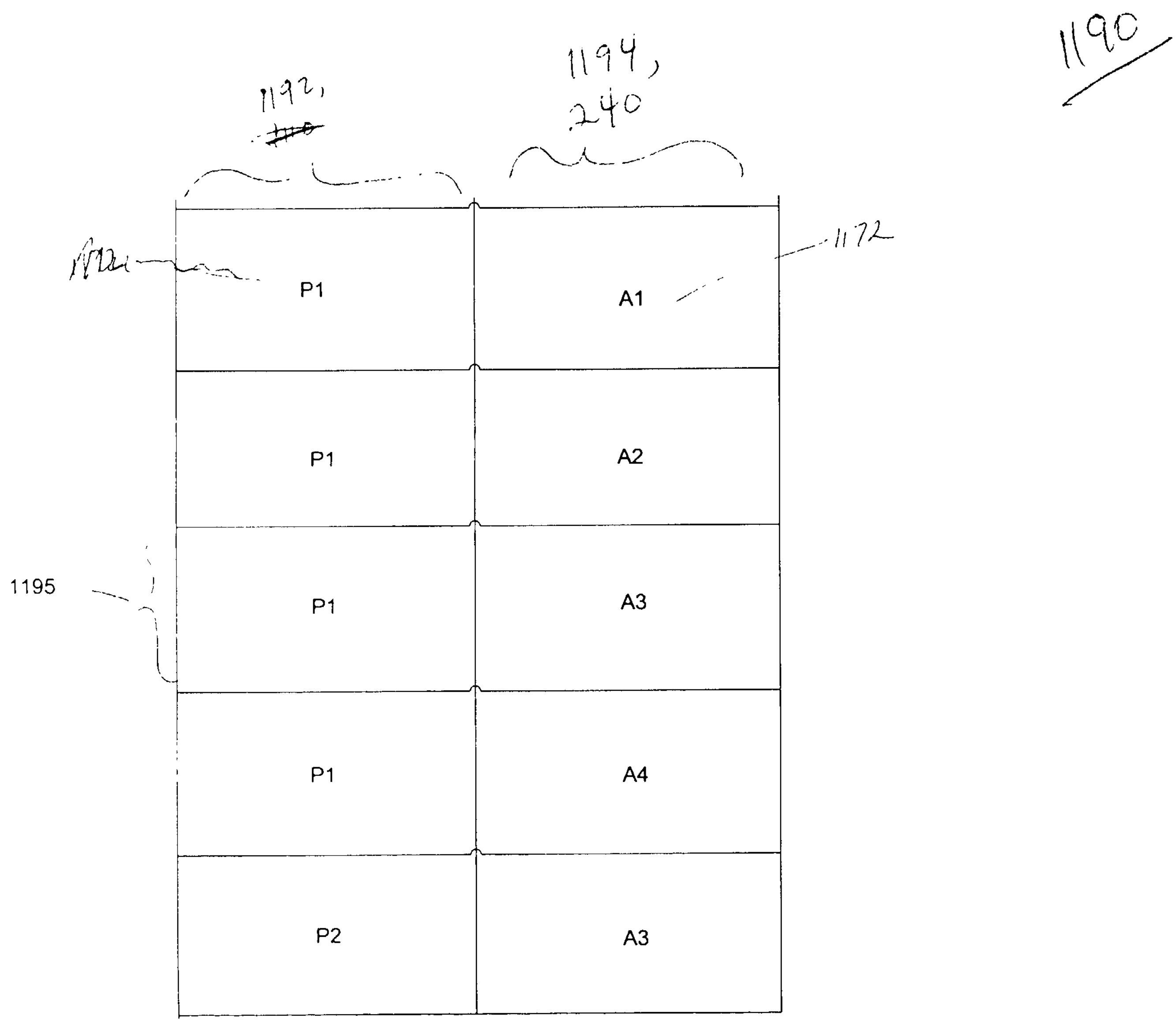

Asset
240
280C
VolatileAsset
StaticAsset
282C
284C
RunnableAsset
RunnableStaticAsset
286C

FIGURE 2C



Package Content Data
Structure

Figure 3

Figure 4

1170

Asset ID 1172	Location (Machine Location URL) 1174	Name 1176	Asset Type 1178	Version (e.g. Time Stamp) 1179	Other (Optional) 1179A
A1			240T		
A2					
A3					

194 (A1 row) — 1175

Asset Definition Data Structure

Asset Data Structure 1370

Asset ID 1372	Version 1374

1375

Figure 5

Client Deployment Queue

1380

Target/Client ID 1382

1385

Figure 7

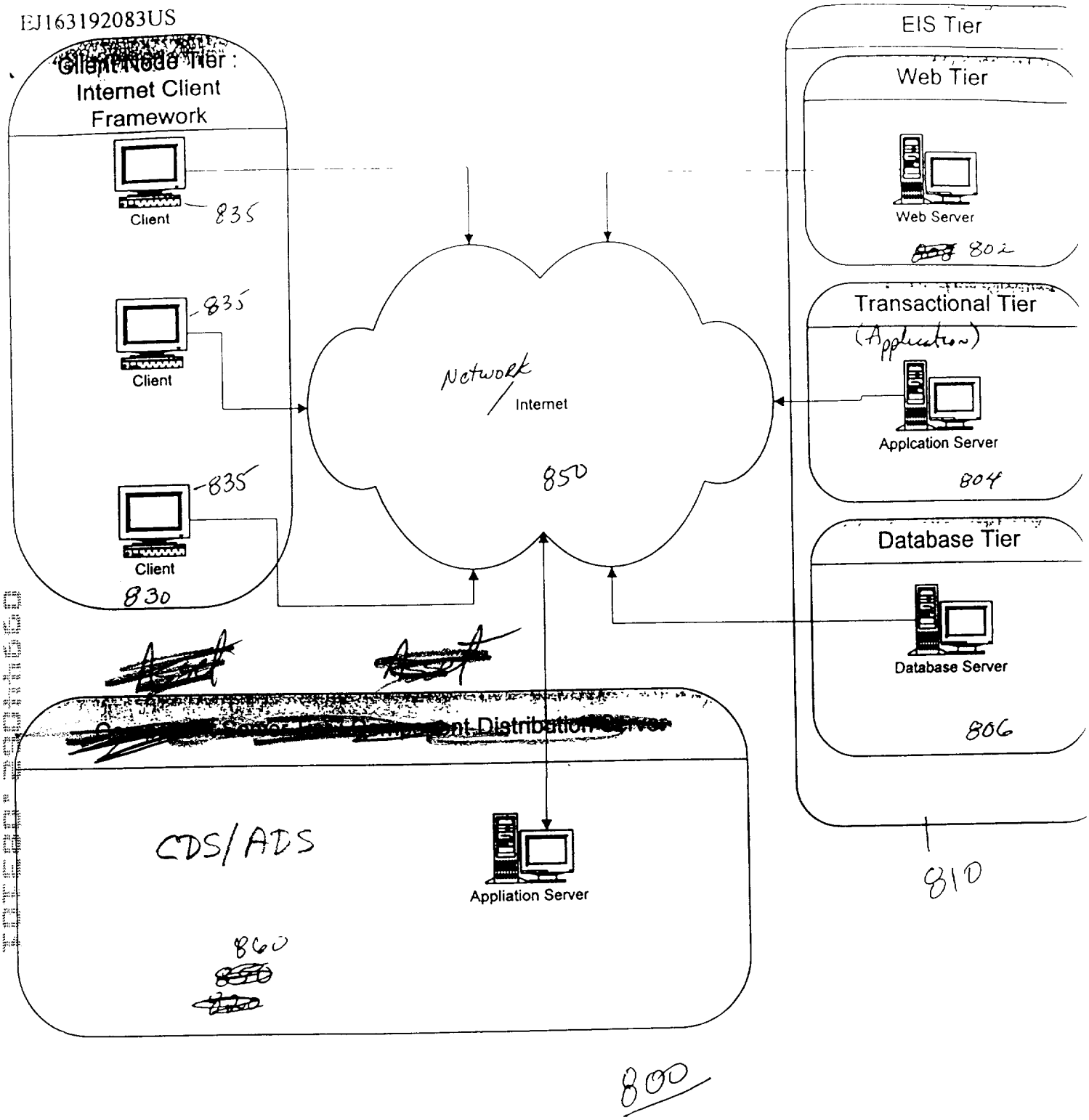
1390

Client ID 1392	Client Assets 1394

1395

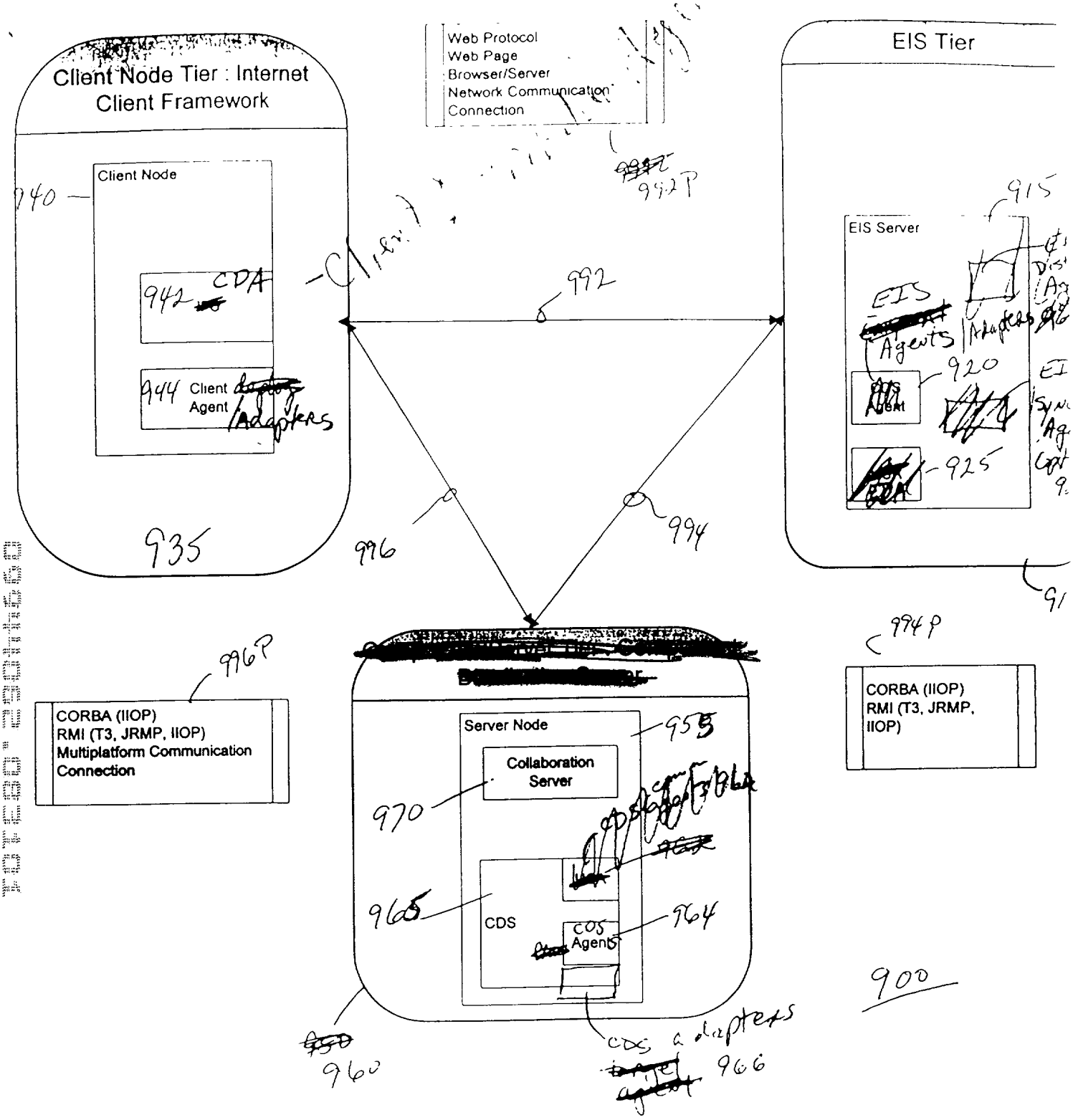
Client Asset Table

Figure 6



8

Figure 1 Physical Network Architecture	4/29/0
IIC, Ltd Highly Confidential	



9

Figure 1 Logical Architecture	4/29/0
IIC, Ltd Highly Confidential	

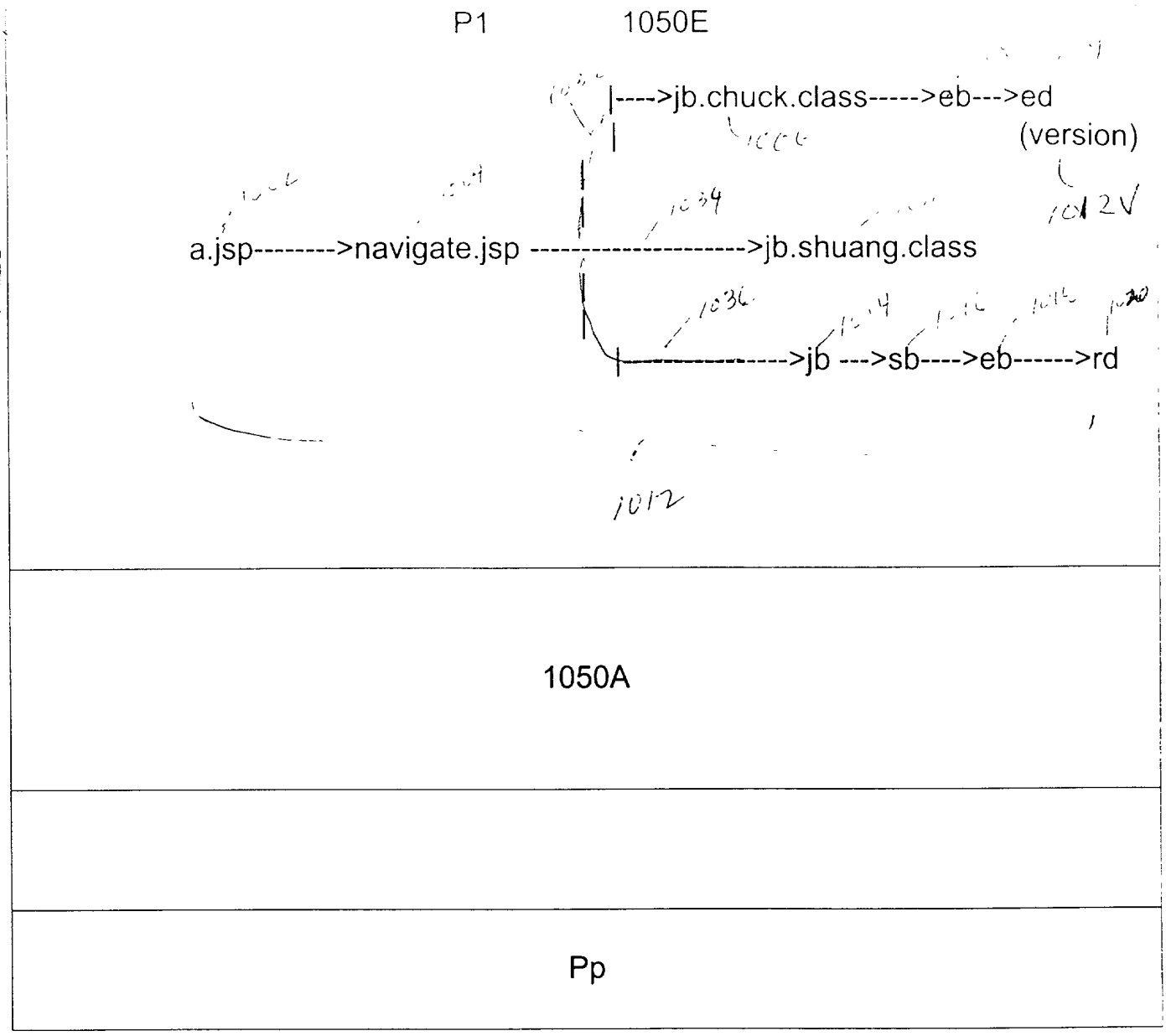

P1
1050E
---->jb.chuck.class----->eb--->ed
(version)
a.jsp-------->navigate.jsp ---------->jb.shuang.class
---------->jb --->sb---->eb------>rd
1012
1050A
Pp

Figure 10

1100

Package ID 1110	Package Timing 1150						Location (e.g. URL) 1120	Other 1163
	Immediate 1152	Delivery Start Time 1154	Delivery End Time 1156	Expire Time 1158	Remove Time 1160	Refresh Rate 1162		
P1								

1105

Figure 11

Package Definition Data Structure

1100A

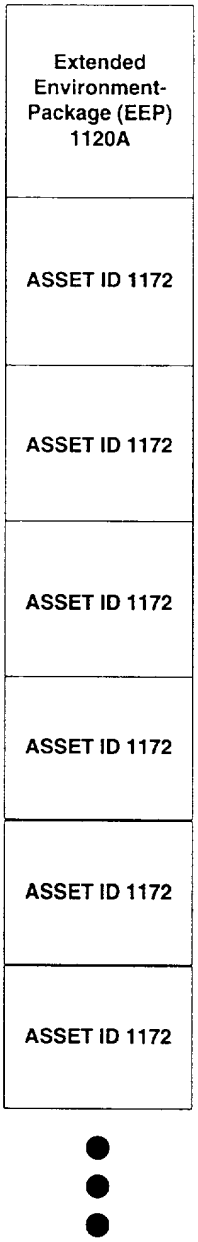


FIGURE 11A

1100B

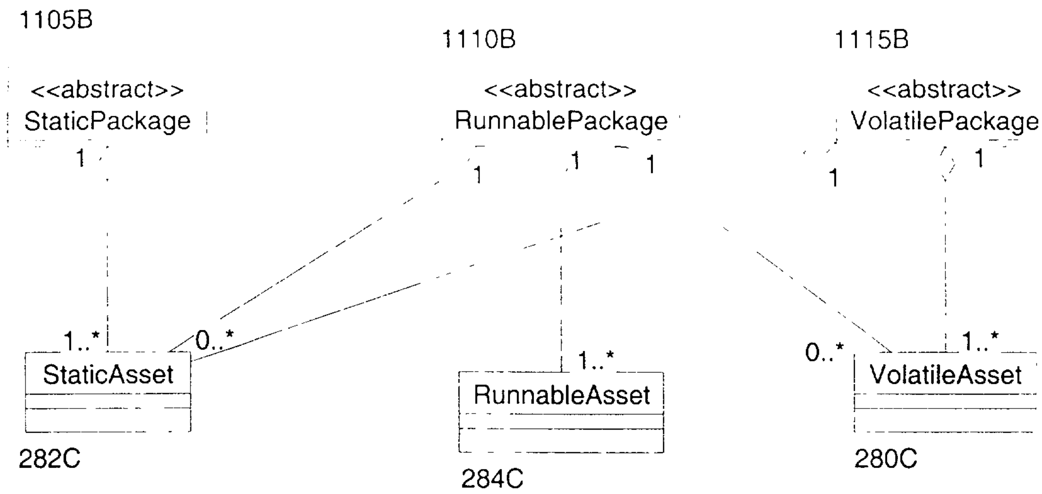
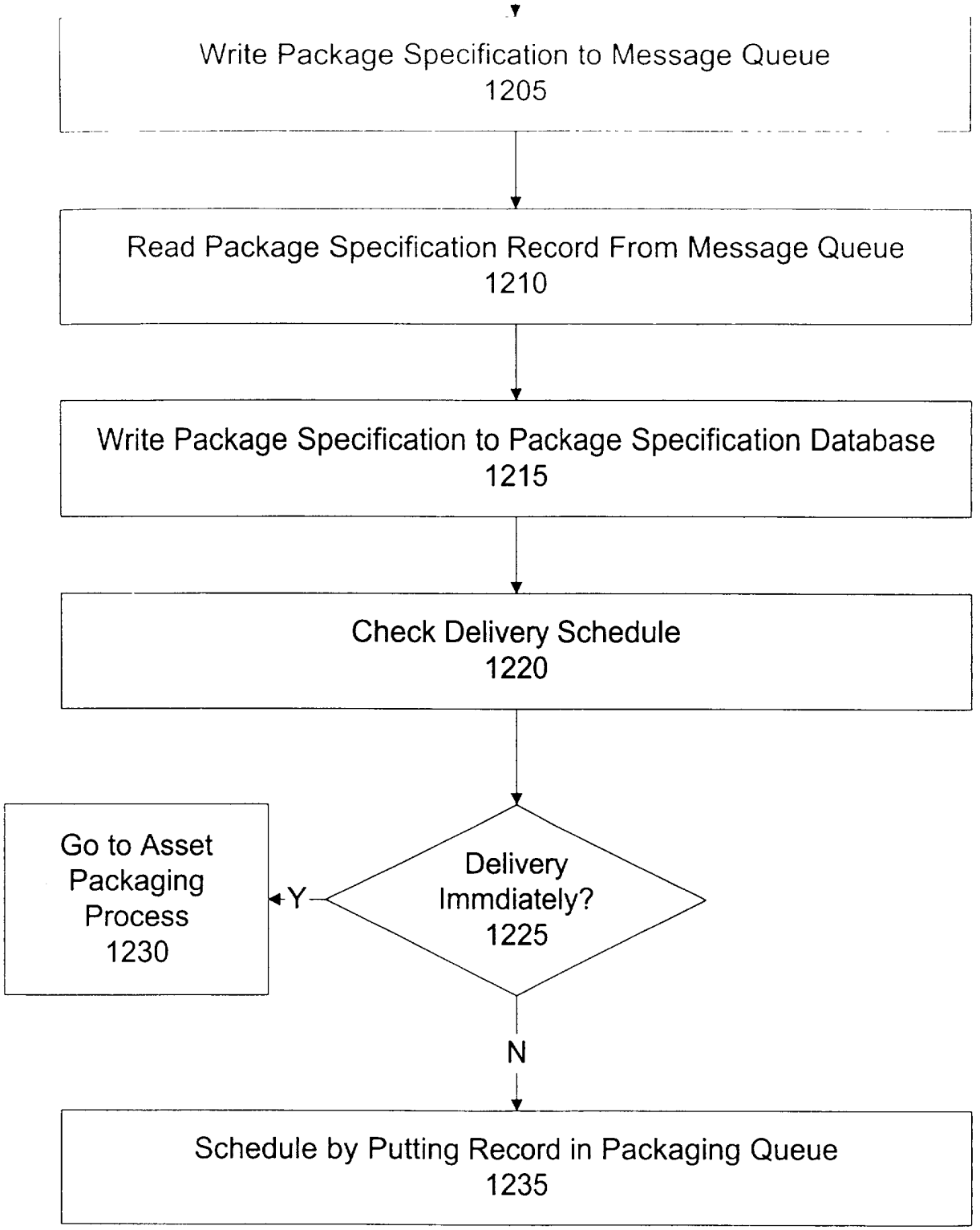


FIGURE 11B



Package Specification Process

Figure 12

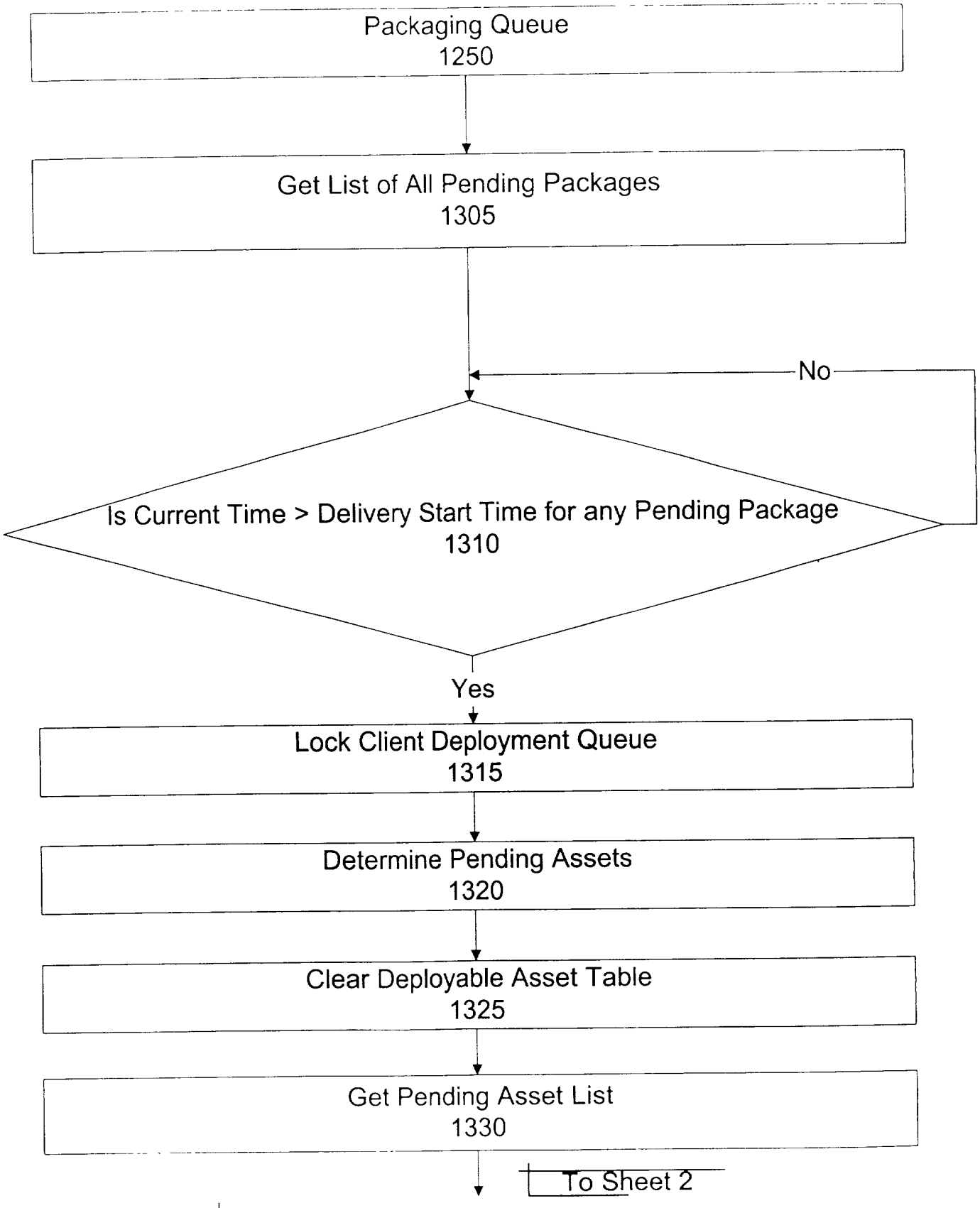
1250

Package ID 1252	Start Time 1254

1255

Packaging Queue

Figure 12A

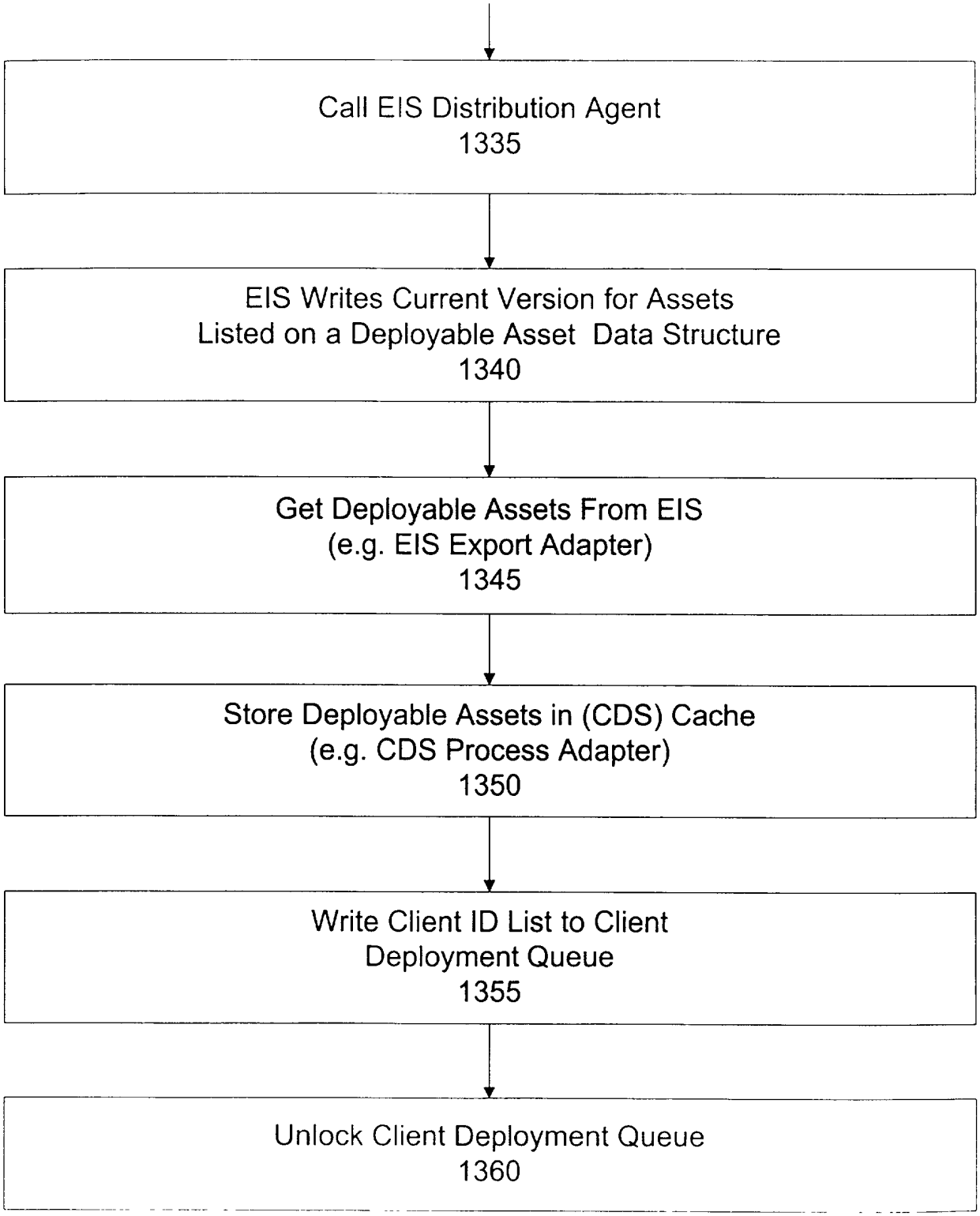


Asset Packaging Process

Figure 13 - Sheet 1

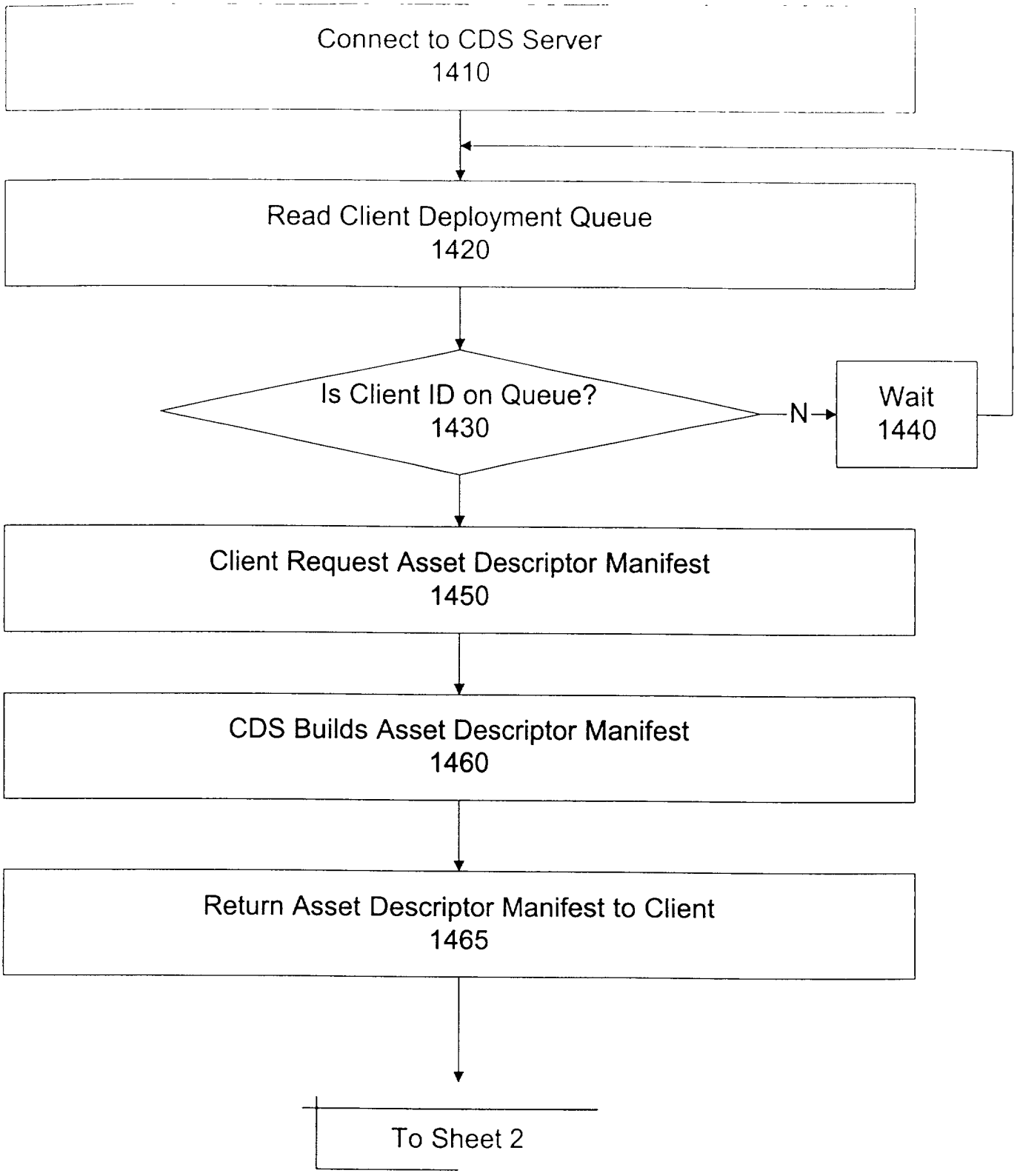
1300

From Sheet 1



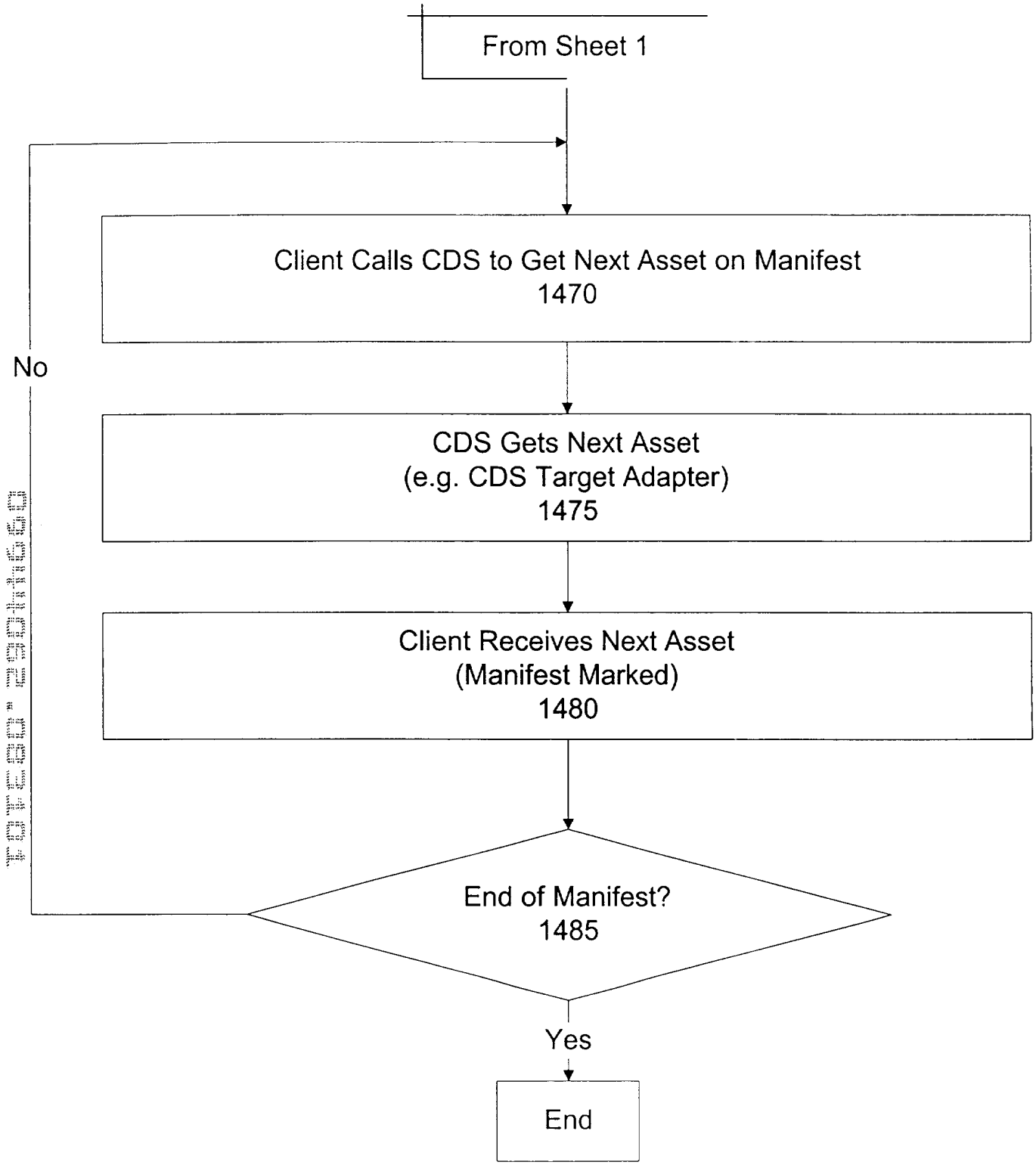
Asset Packaging Process

Figure 13 - Sheet 2



Client Deployment Process

Figure 14 - Sheet 1



Client Deployment Process

Figure 14 - Sheet 2

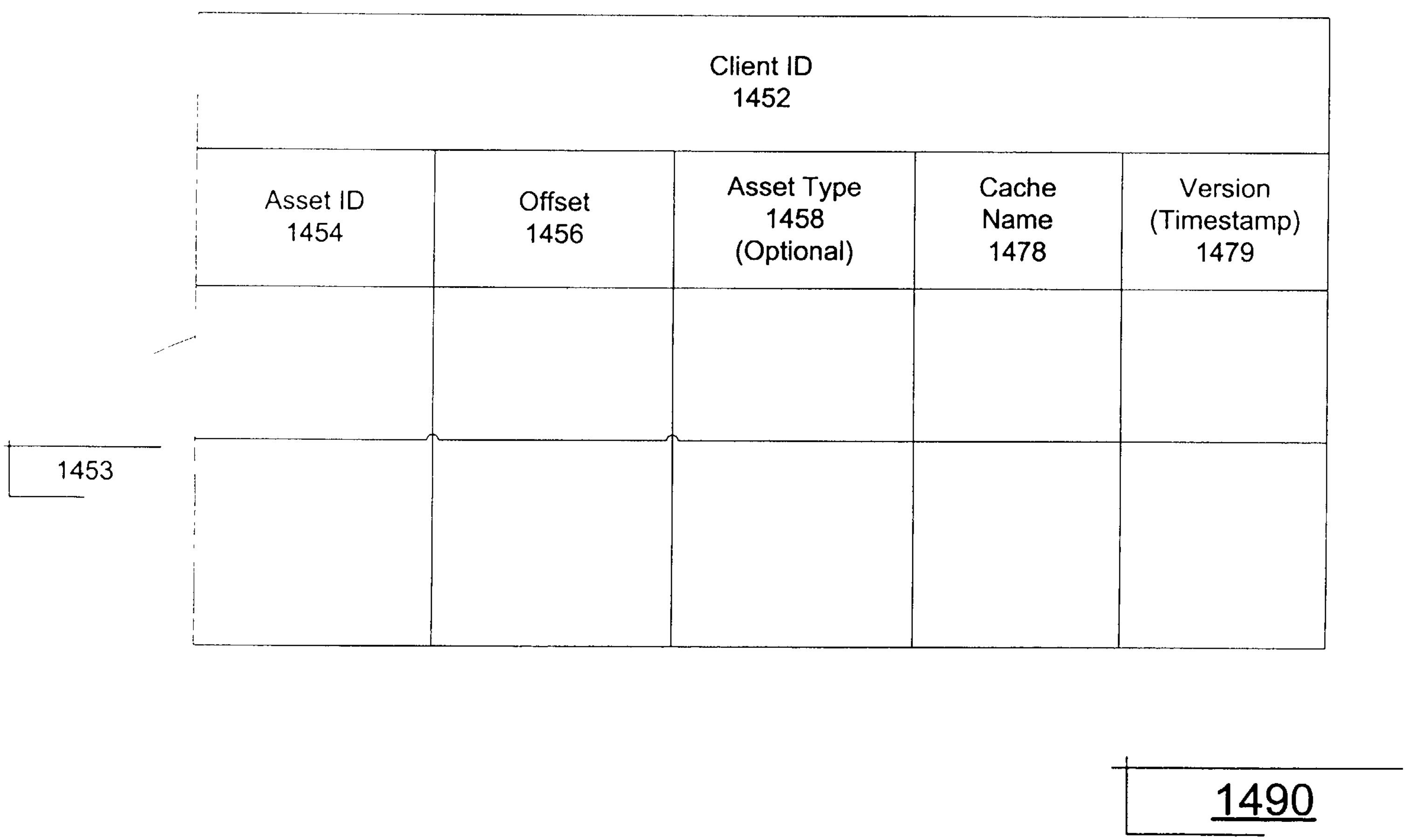
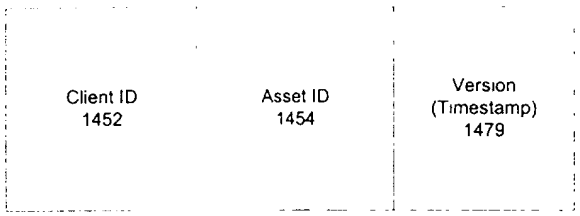


Figure 14A

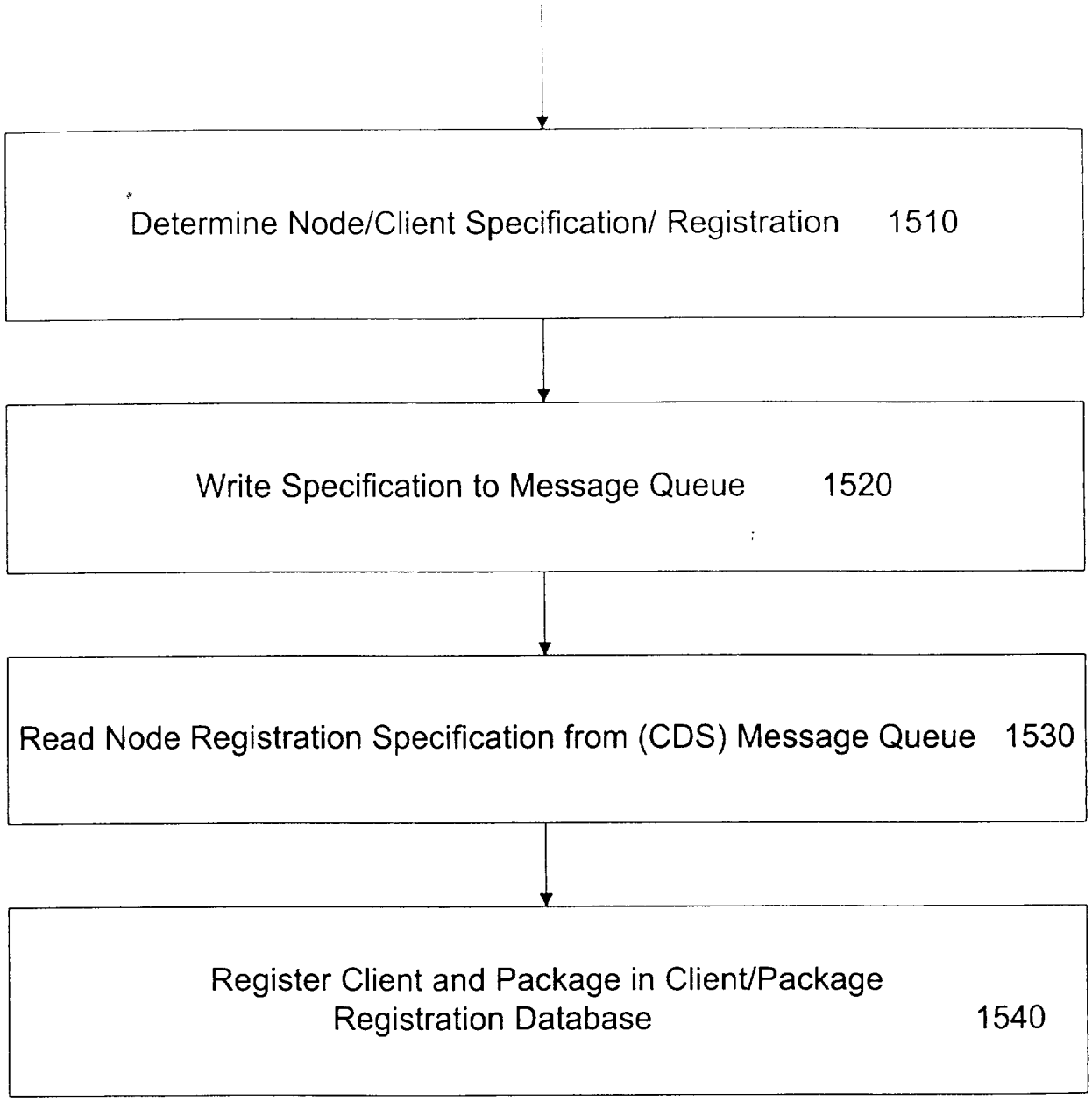
Asset Descriptor Manifest Data Structure

1495



Client Asset Table

Figure 14B



Node Registration Process

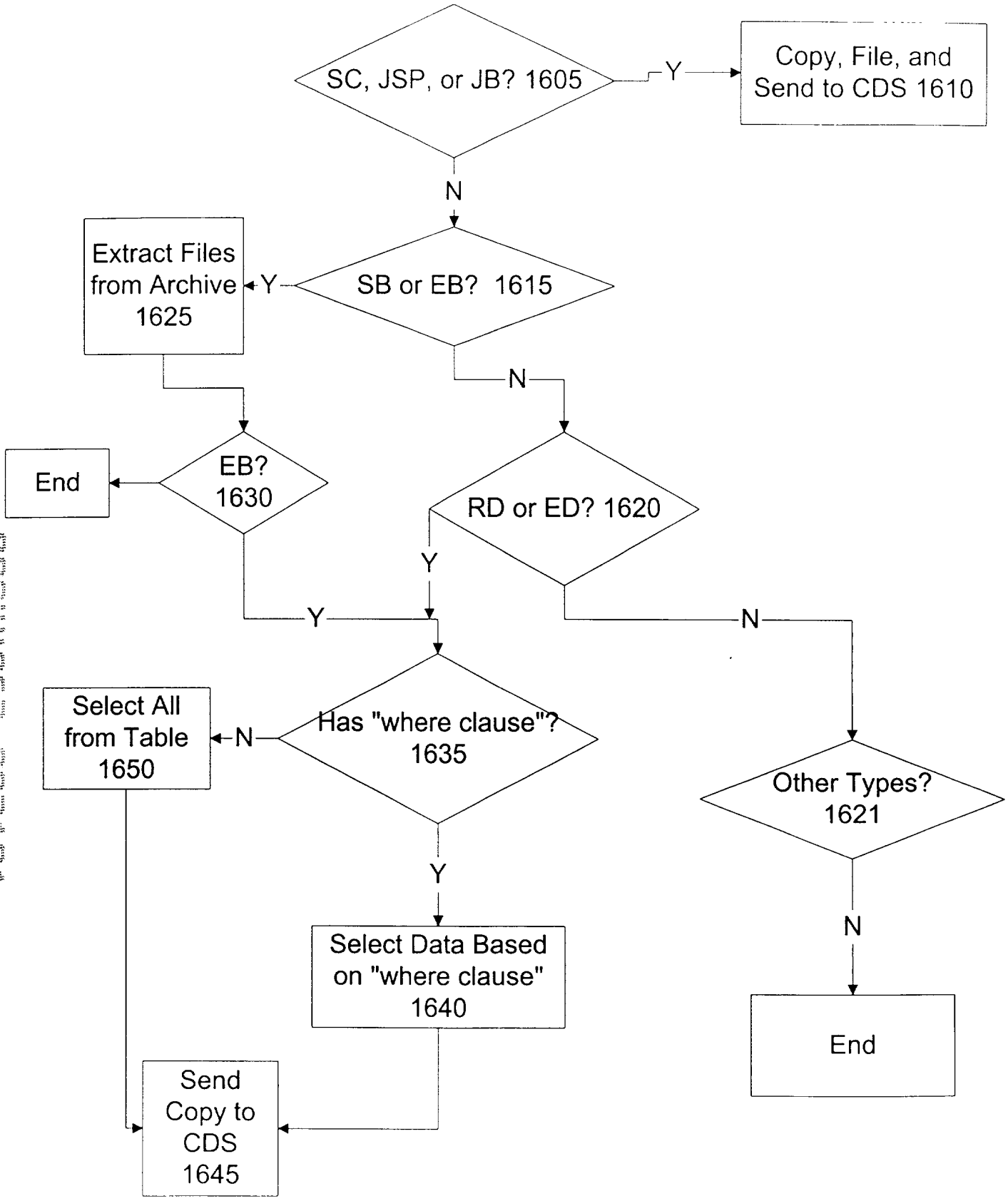
Figure 15

1522

Node ID 1524	Package ID 1526

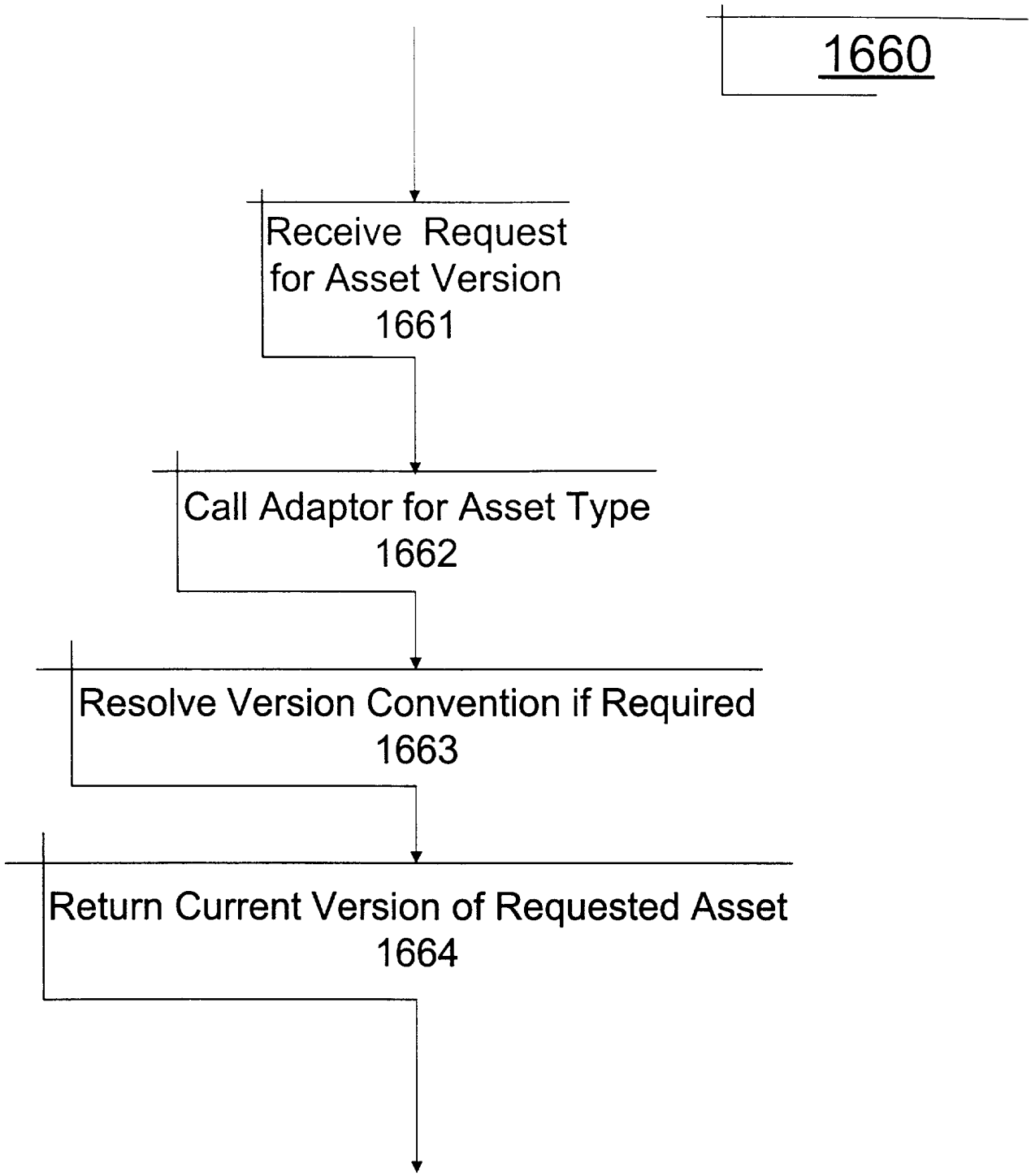
Node Registration Specification

Figure 15A



Export Adapter Method

Figure 16



Version Asset Adapter Process - VAM

Figure 16A

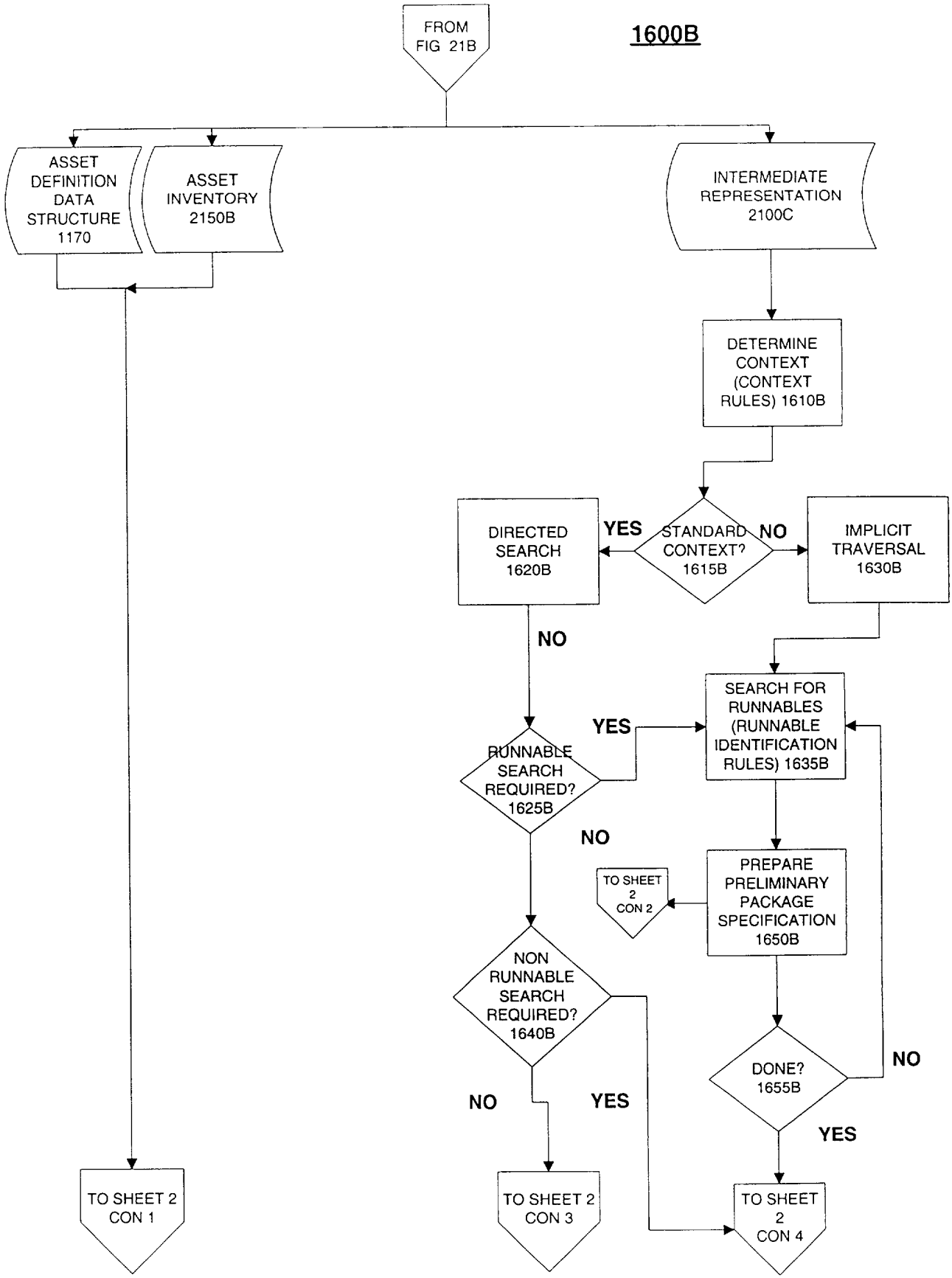


FIG. 16B
SHEET 1

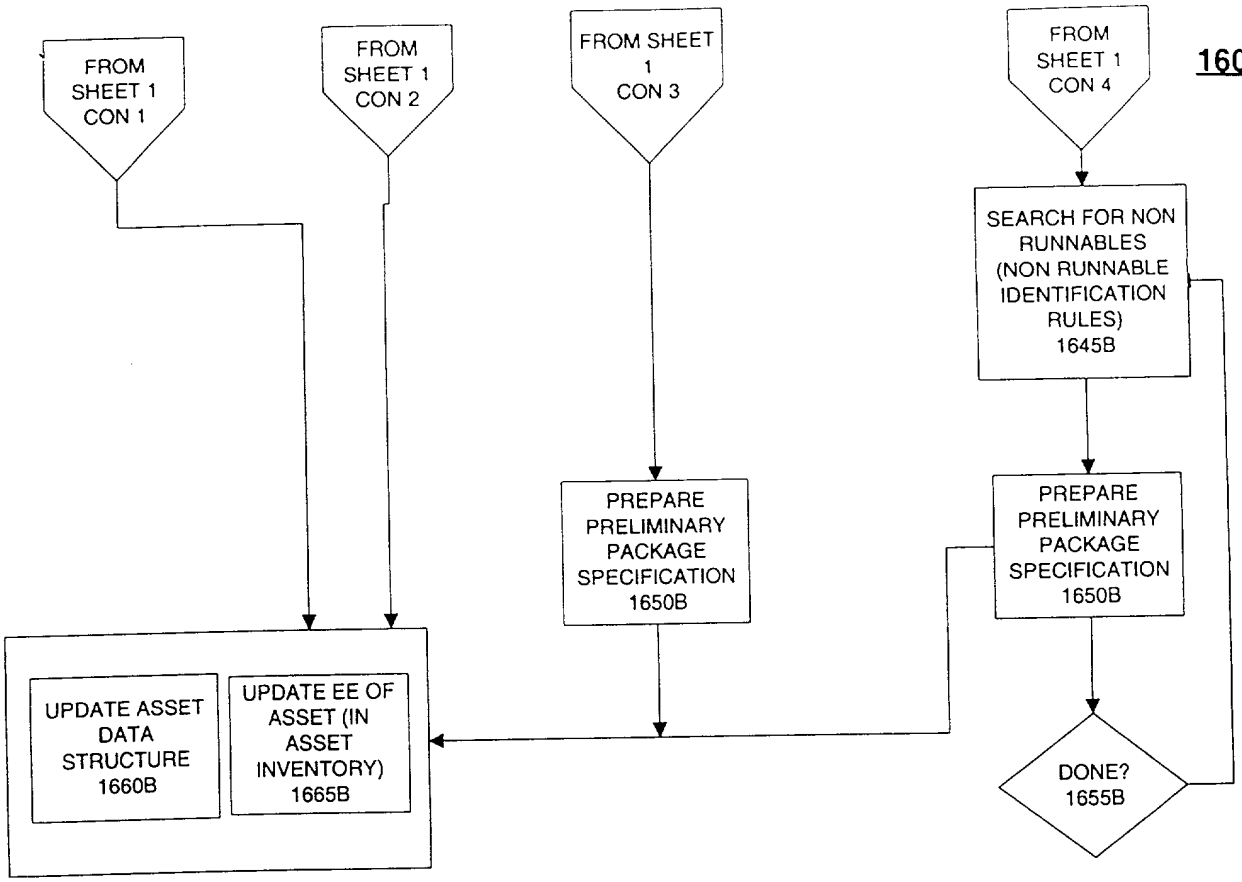
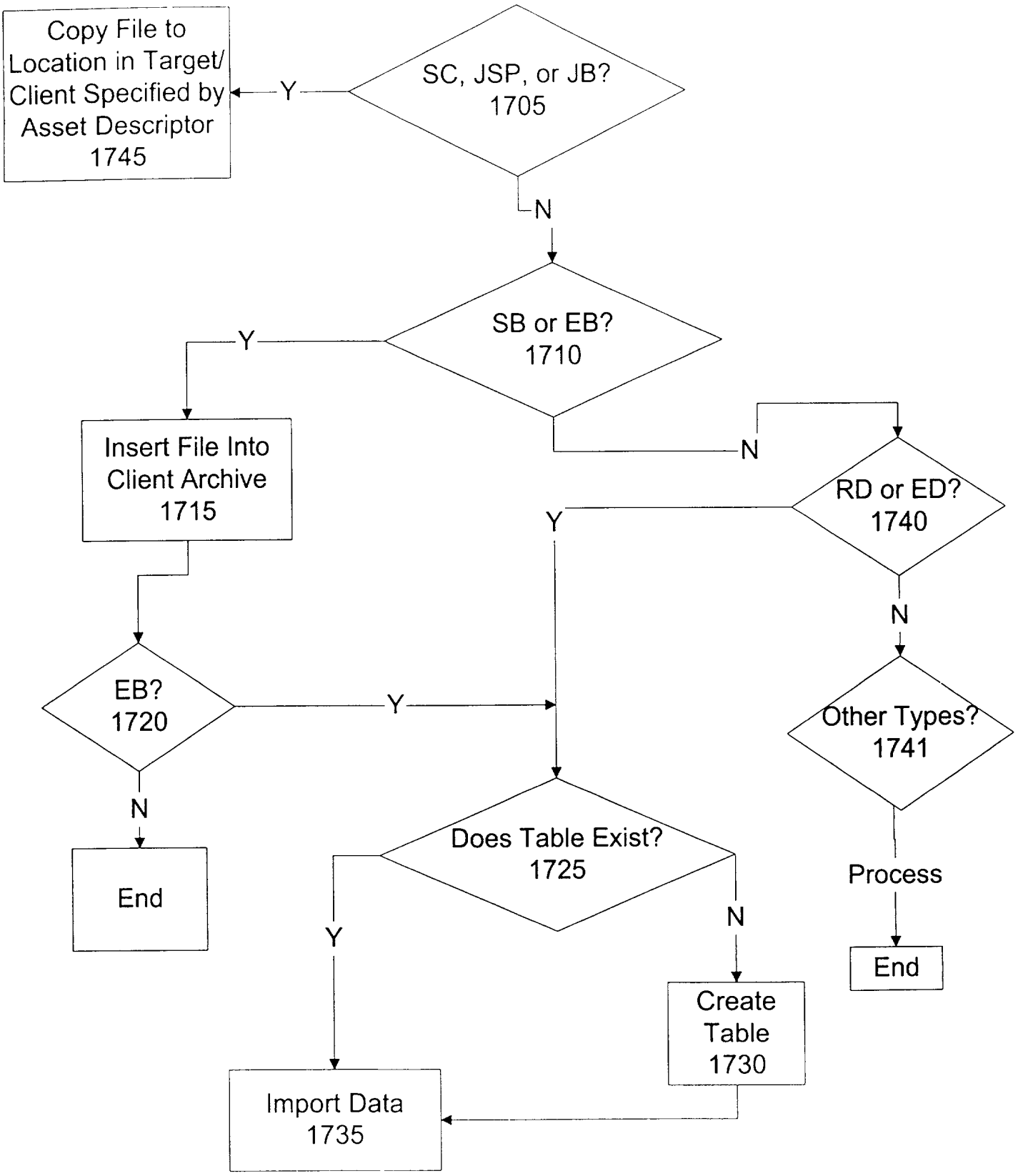


FIG. 16B
SHEET 2



[redacted]-Deploy Adapter Method

Figure 17

1700A

DIS TRANSACTIONAL DEPLOYMENT SPHERE OF CONTROL

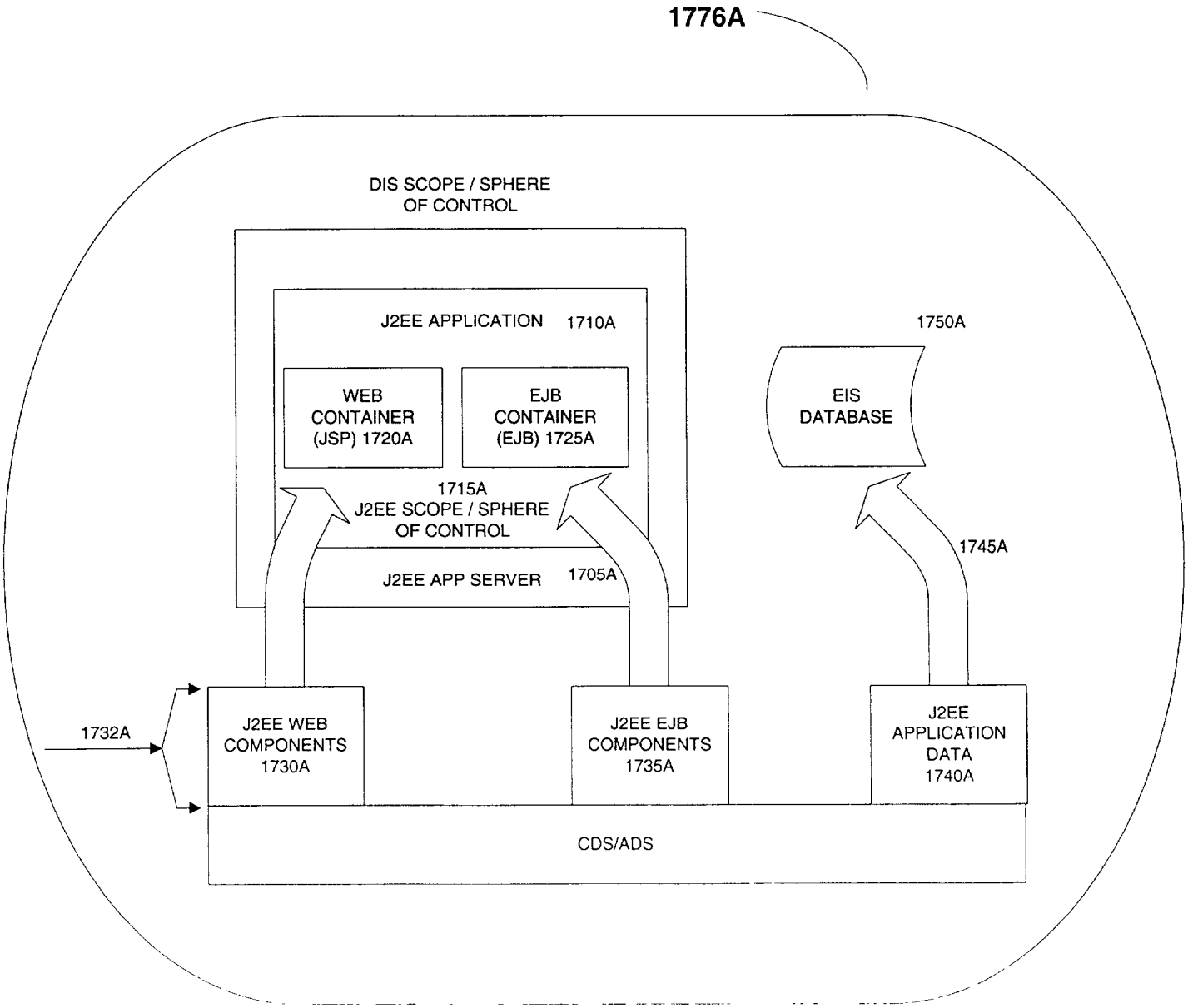
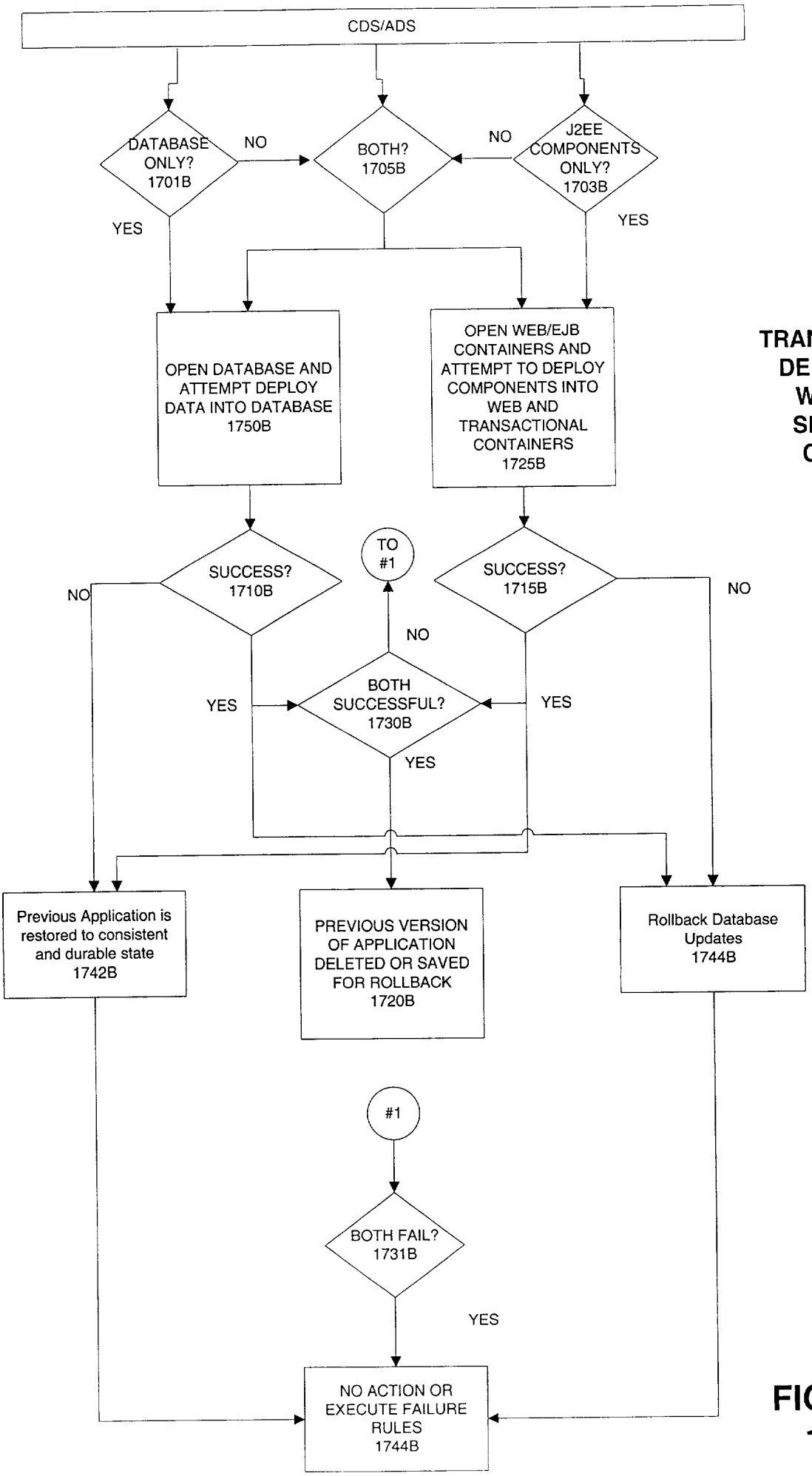
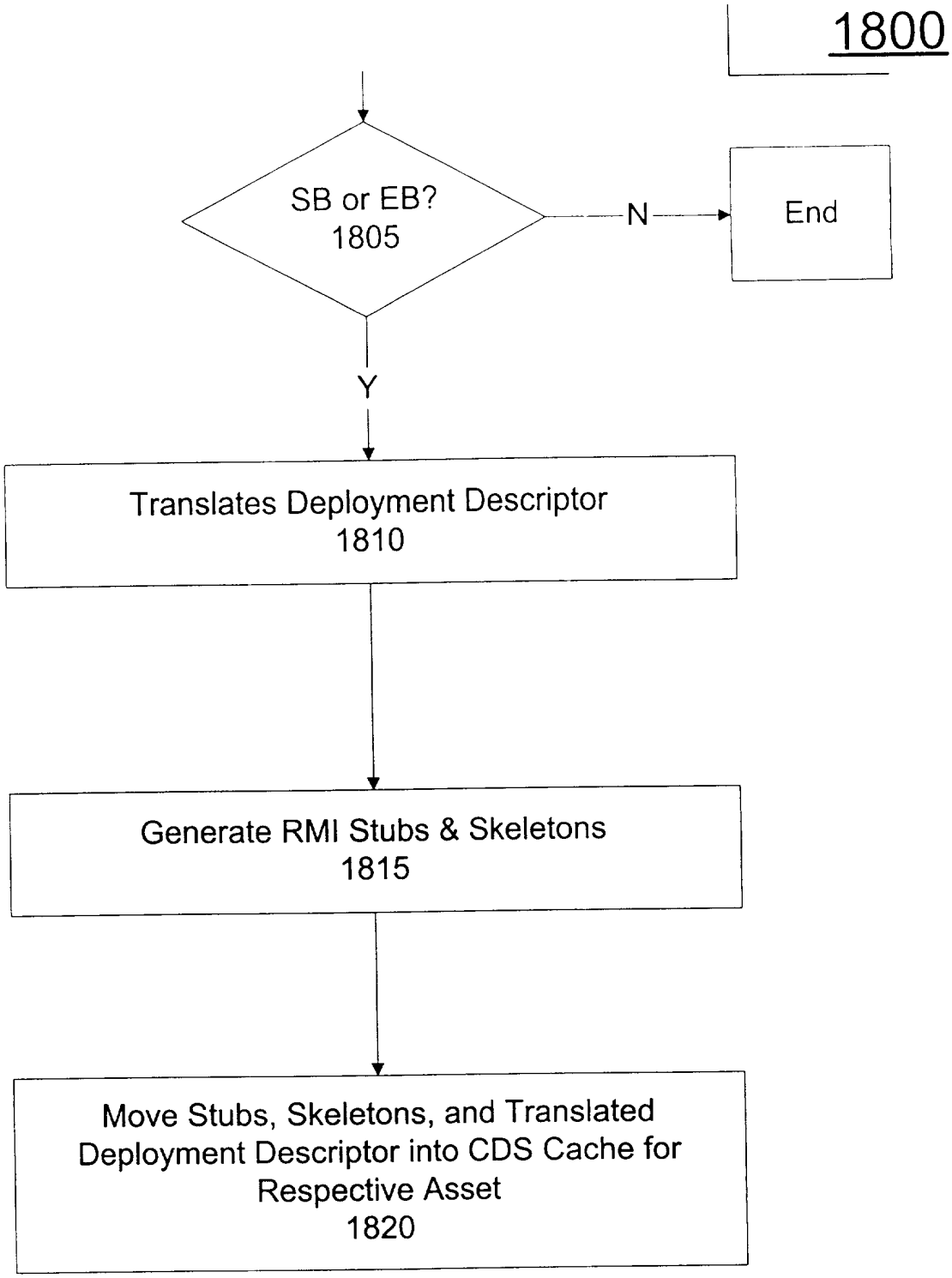


FIGURE 17A



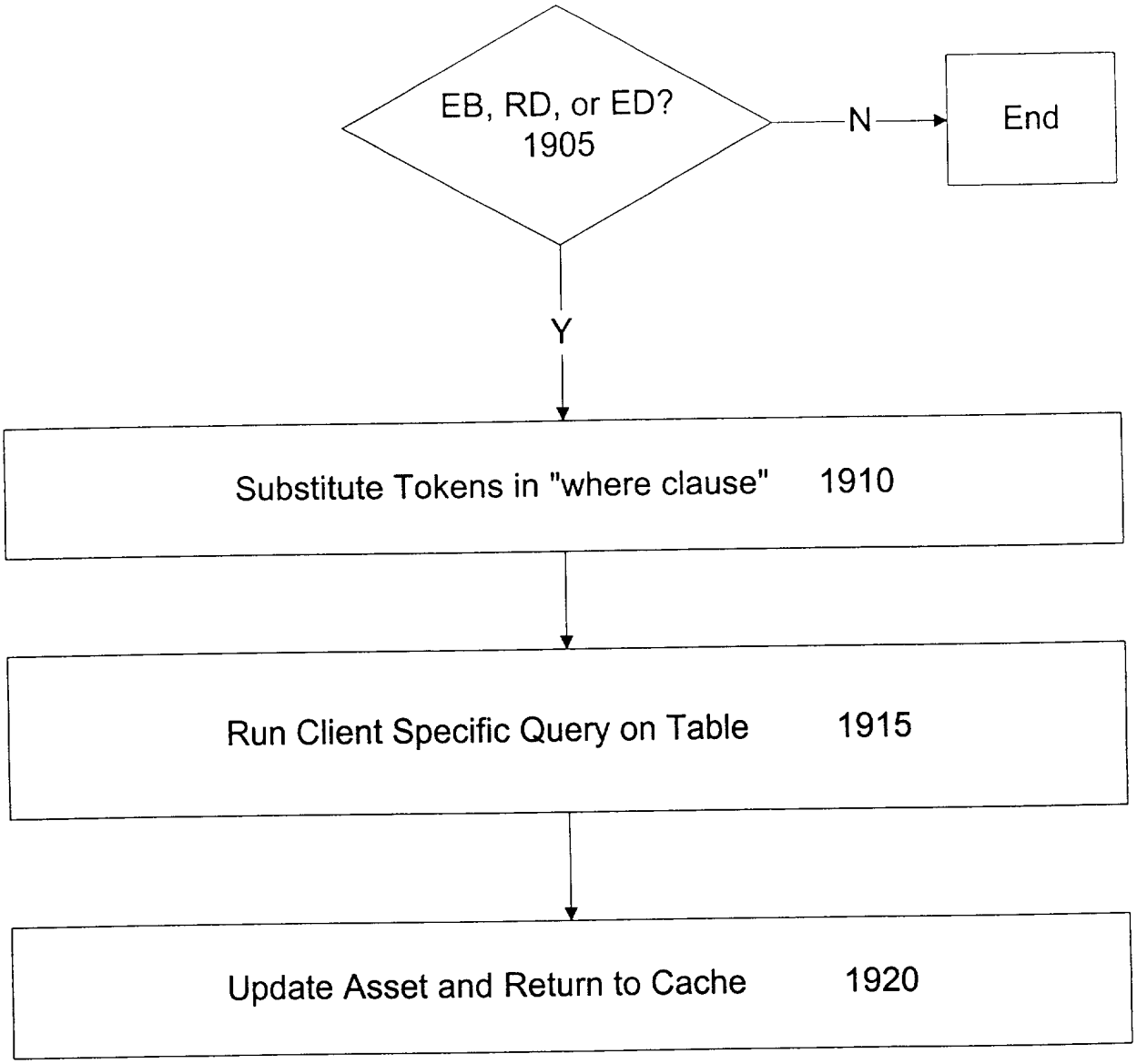
1700B
TRANSACTIONAL DEPLOYMENT WITHIN DIS SPHERE OF CONTROL

FIGURE 17B



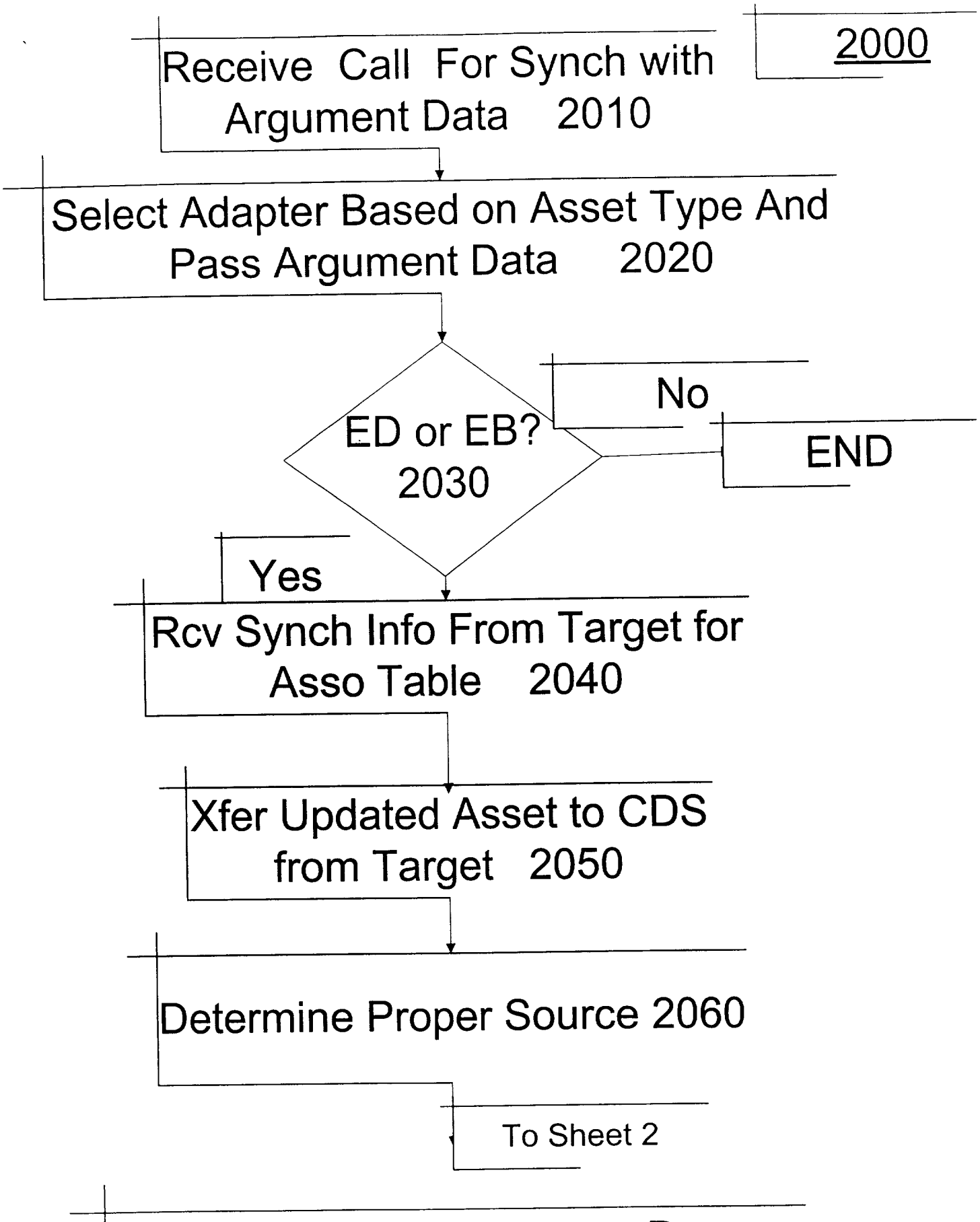
Process Adapter Method

Figure 18



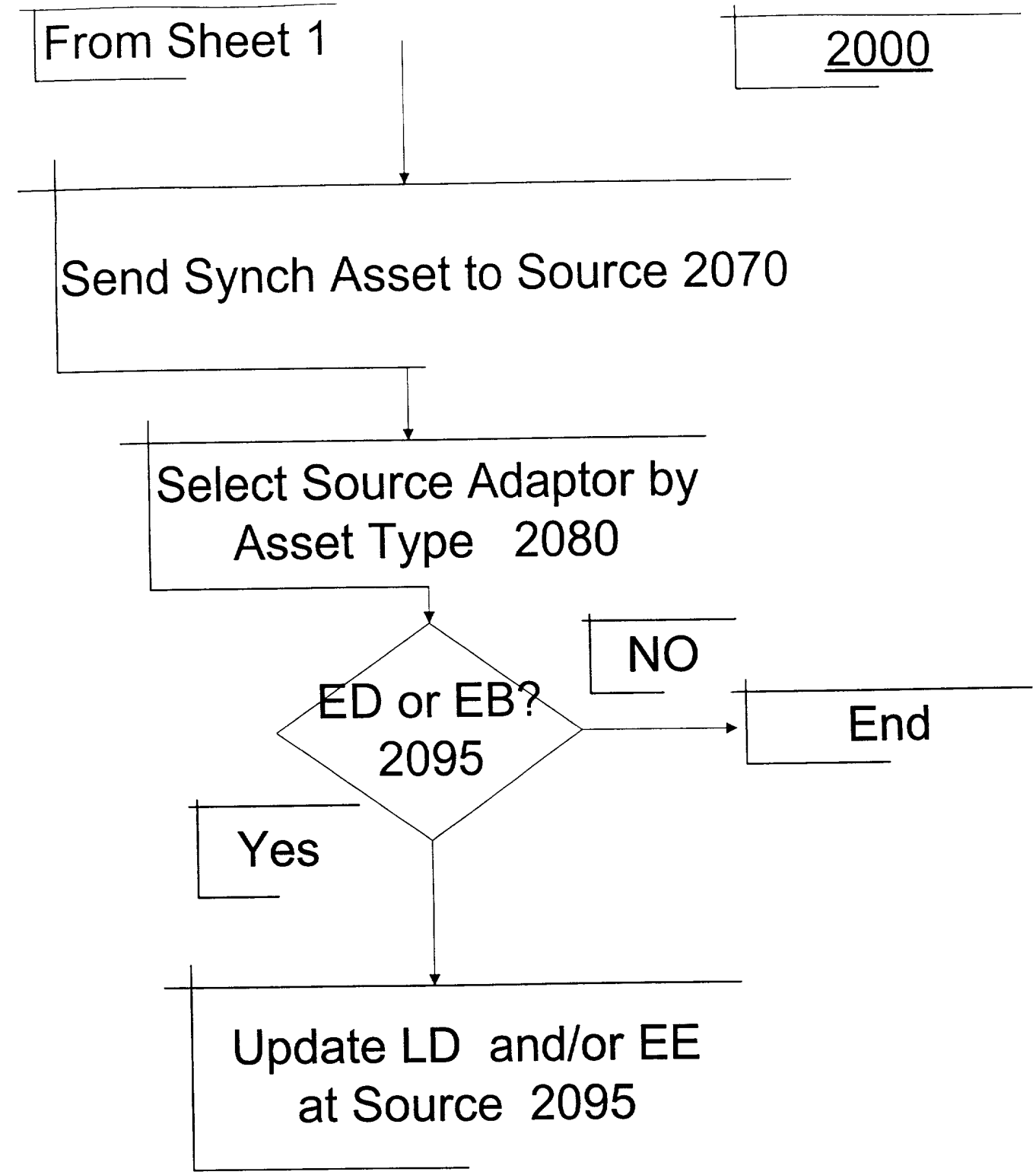
Target Adapter Method

Figure 19



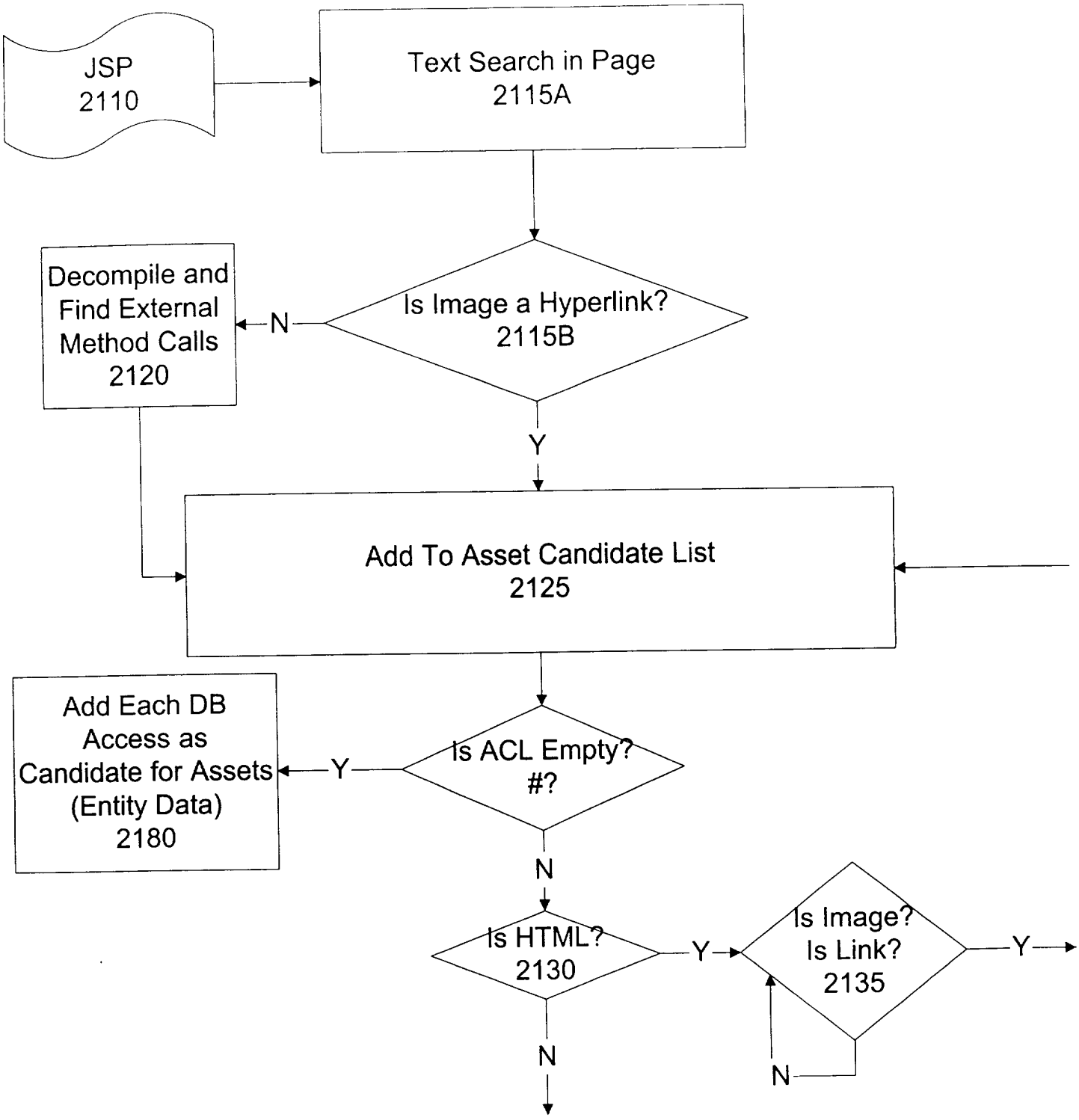
Synchronize Asset Adapter Process

Figure 20 - Sheet 1



Synchronize Asset Adapter Process

Figure 20 - Sheet 2



Discovery Asset Adapter Method

Figure 21 - Sheet 1

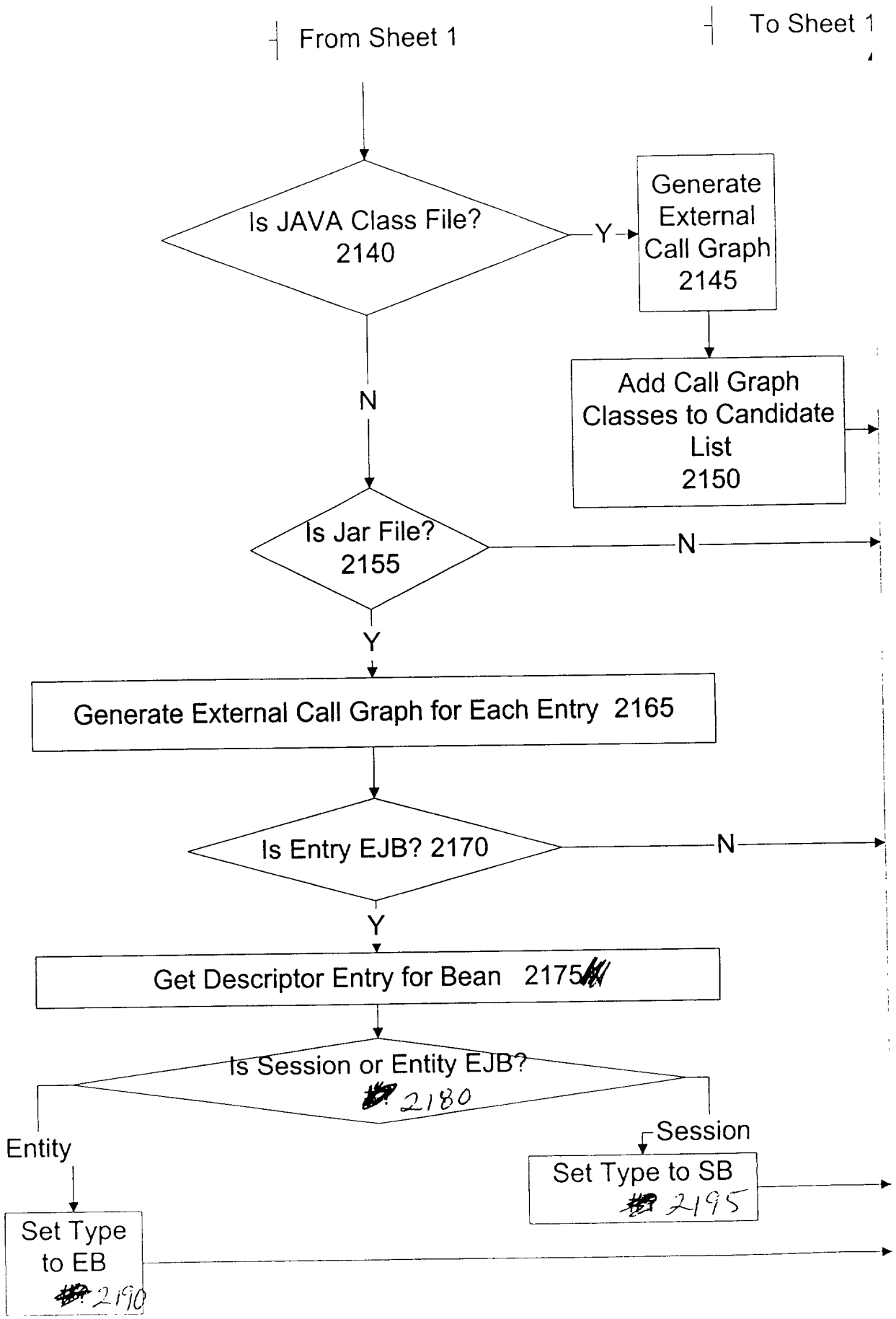
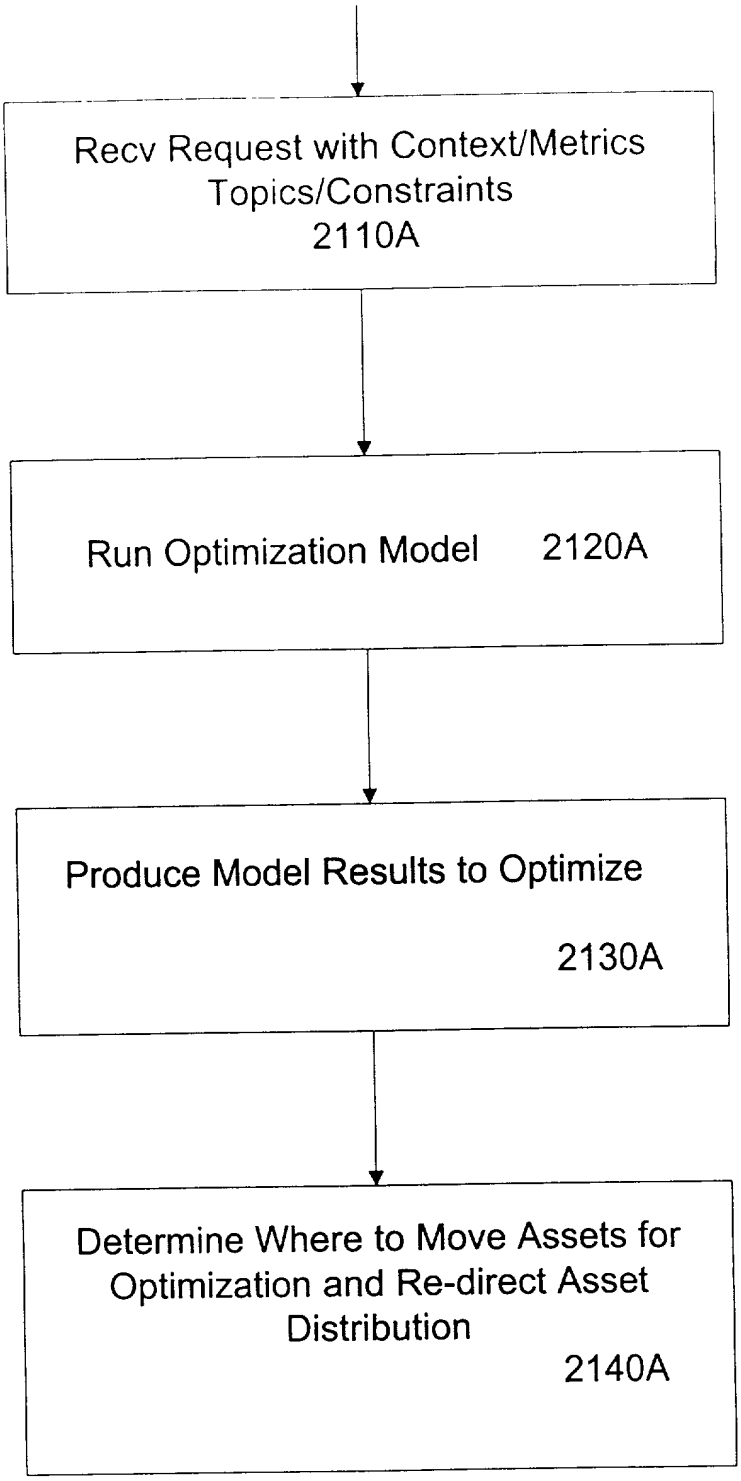


Figure 21-Sheet 2



Adjustment Asset Adapter Process

Figure 21A

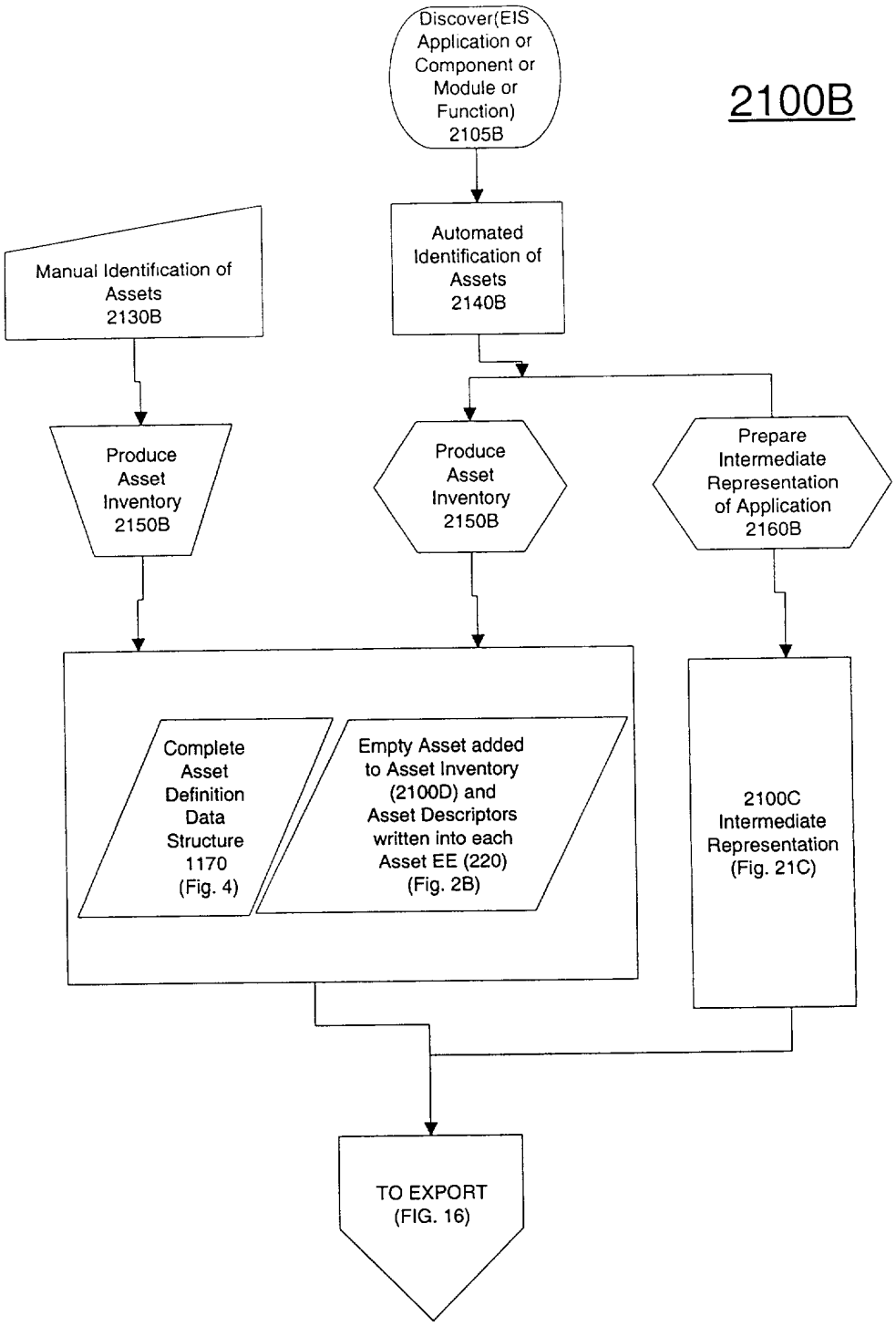
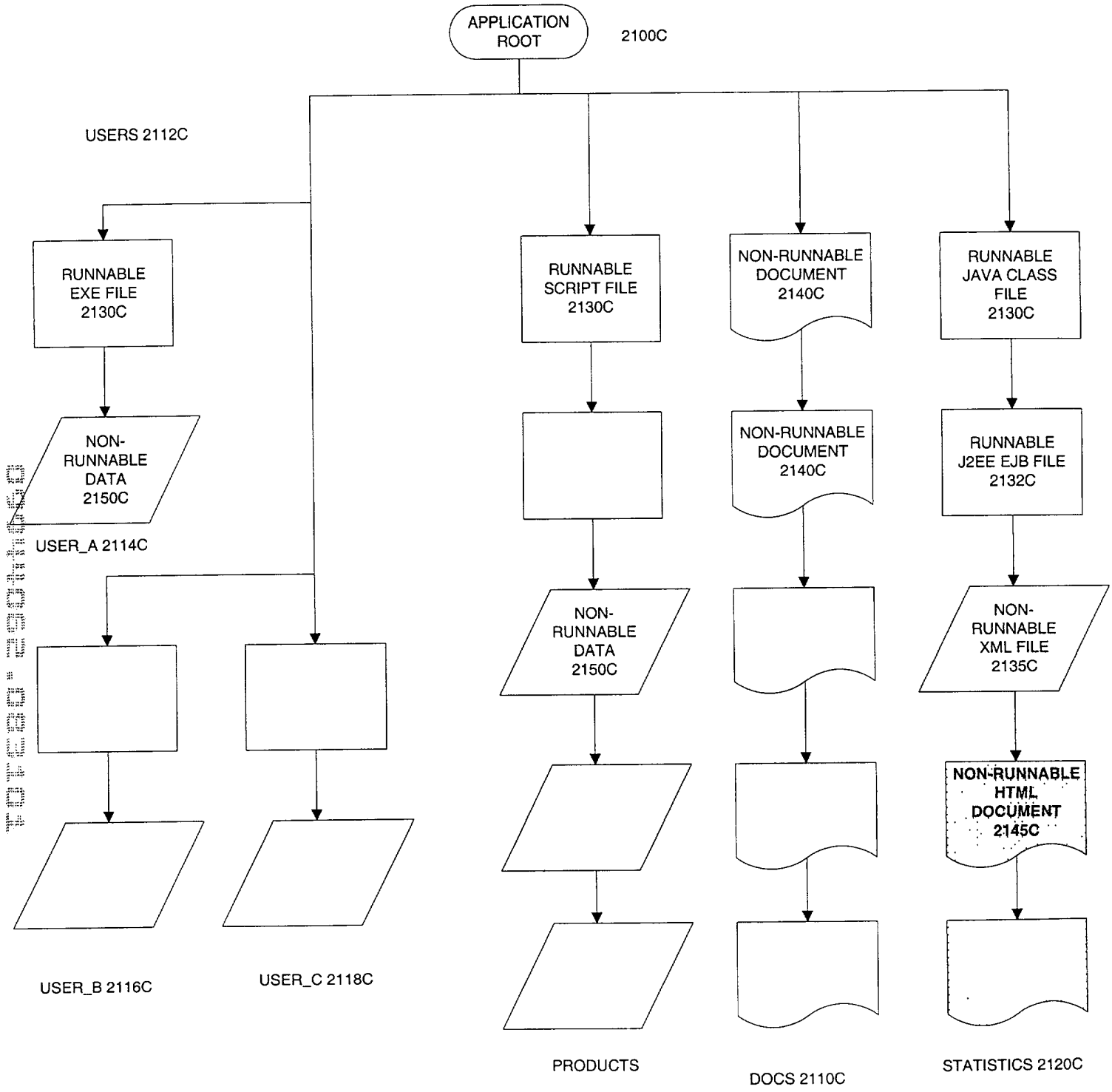

2100B
Discover(EIS Application or Component or Module or Function) 2105B
Automated Identification of Assets 2140B
Manual Identification of Assets 2130B
Produce Asset Inventory 2150B
Produce Asset Inventory 2150B
Prepare Intermediate Representation of Application 2160B
Complete Asset Definition Data Structure 1170 (Fig. 4)
Empty Asset added to Asset Inventory (2100D) and Asset Descriptors written into each Asset EE (220) (Fig. 2B)
2100C Intermediate Representation (Fig. 21C)
TO EXPORT (FIG. 16)

FIGURE 21B



PRIOR ART

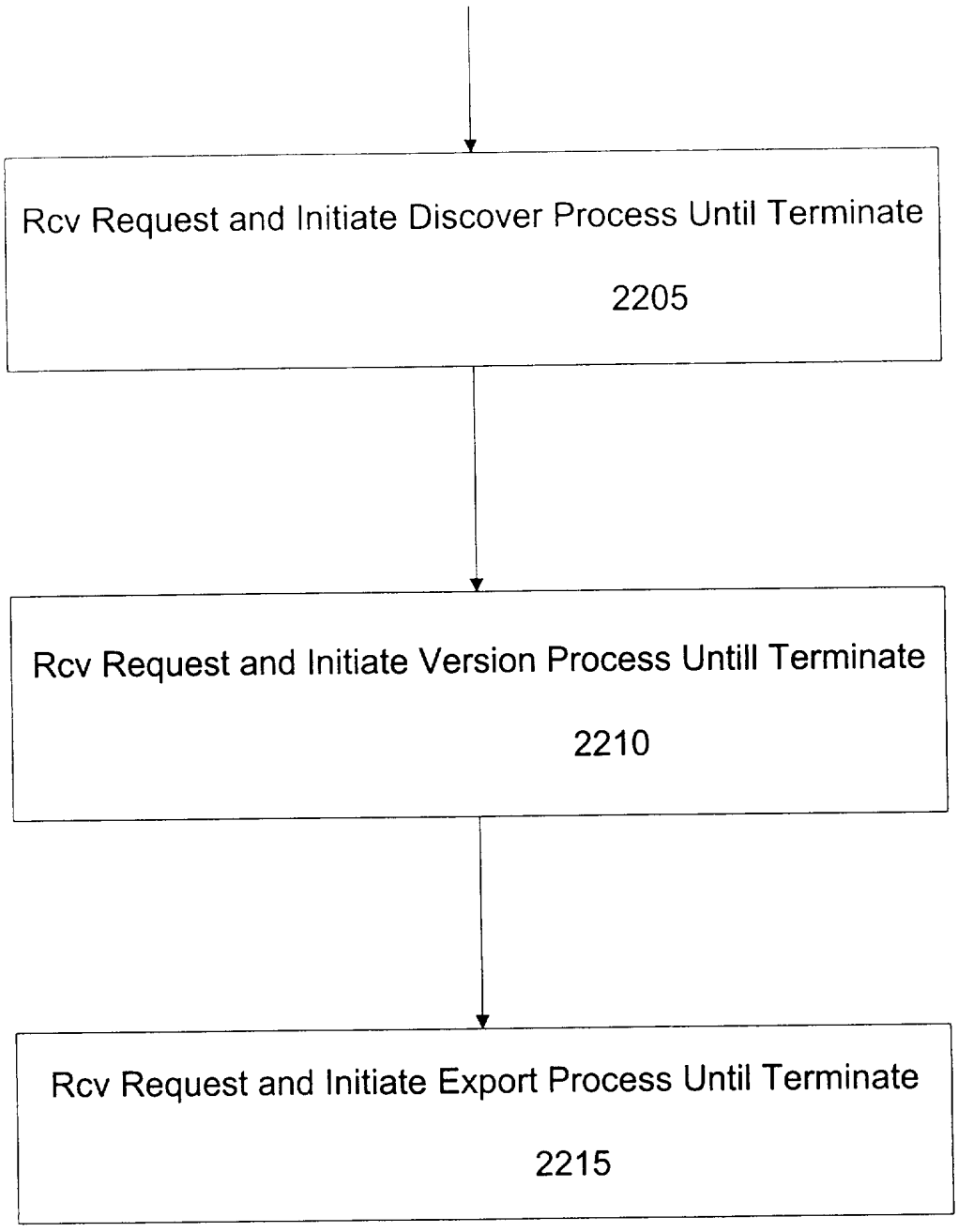
FIGURE 21C

2100D

EE 220	ASSET INTERFACE 230 (OPTIONAL)	LOGIC/ DATA (LD) 210
EE 220	ASSET INTERFACE 230 (OPTIONAL)	LOGIC/ DATA (LD) 210
EE 220	ASSET INTERFACE 230 (OPTIONAL)	LOGIC/ DATA (LD) 210
EE 220	ASSET INTERFACE 230 (OPTIONAL)	LOGIC/ DATA (LD) 210
EE 220	ASSET INTERFACE 230 (OPTIONAL)	LOGIC/ DATA (LD) 210
EE 220	ASSET INTERFACE 230 (OPTIONAL)	LOGIC/ DATA (LD) 210
EE 220	ASSET INTERFACE 230 (OPTIONAL)	LOGIC/ DATA (LD) 210

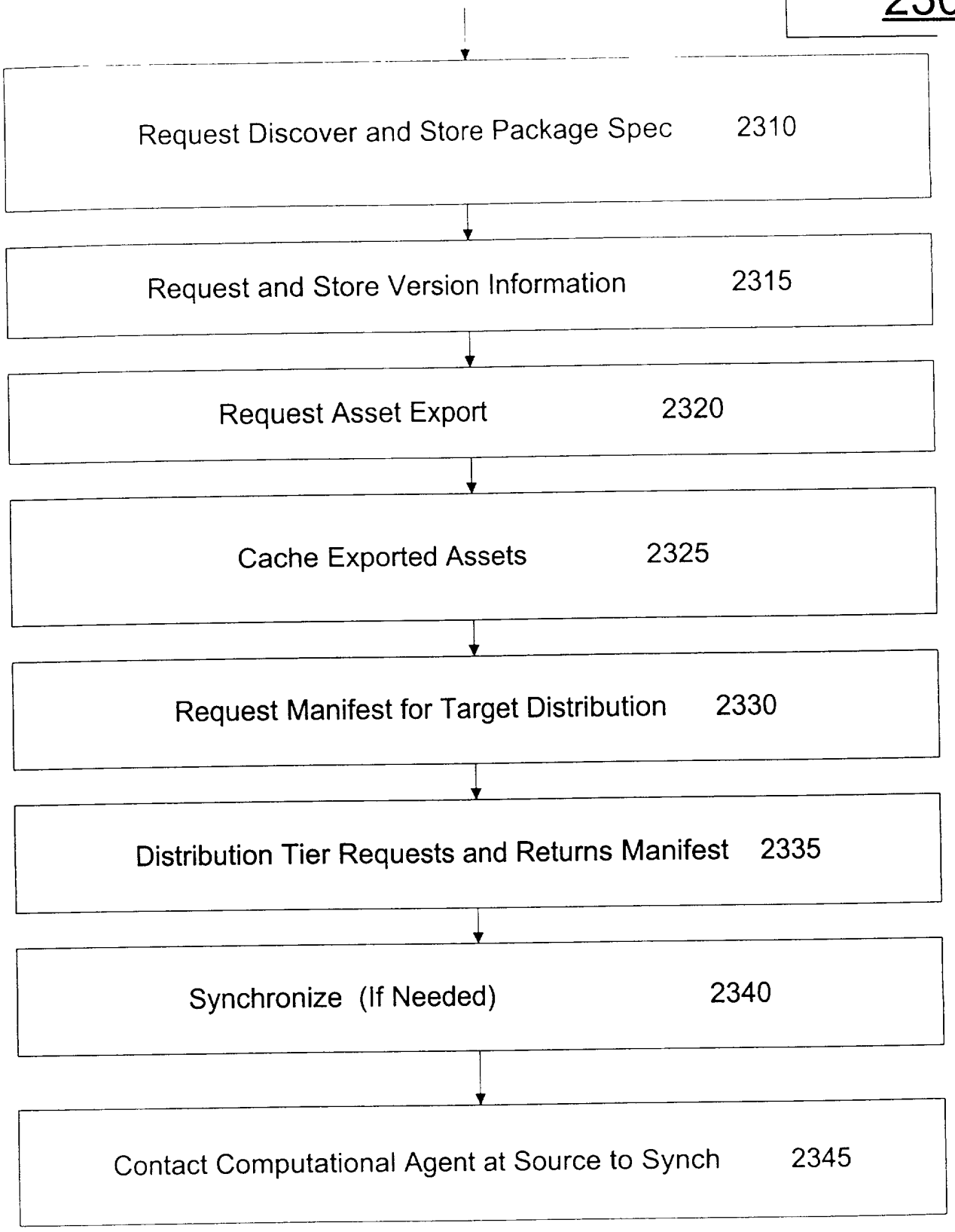
•
•
•

FIGURE 21D



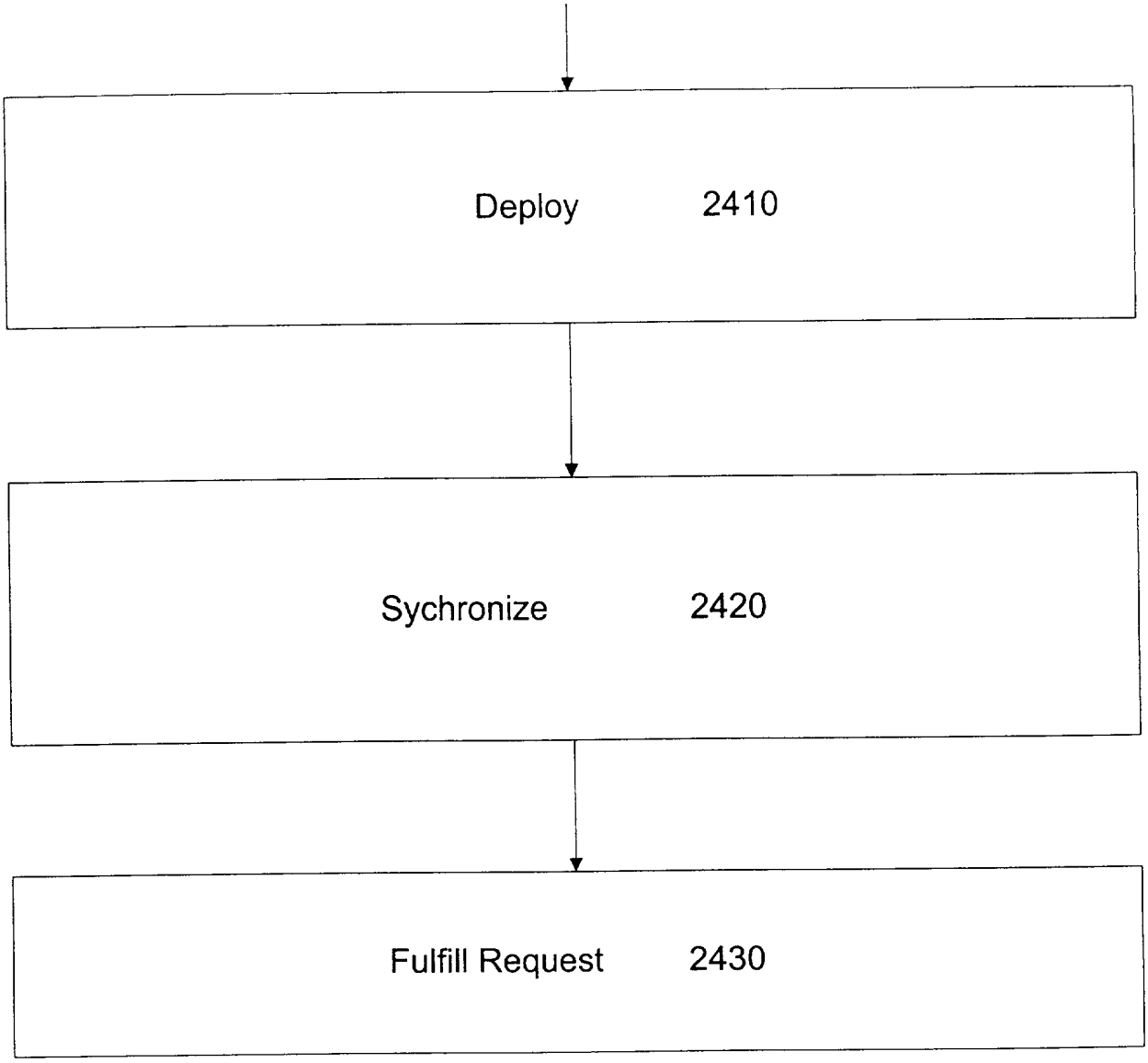
Publishing Agent Method

Figure 22



Subscriber Agent Method

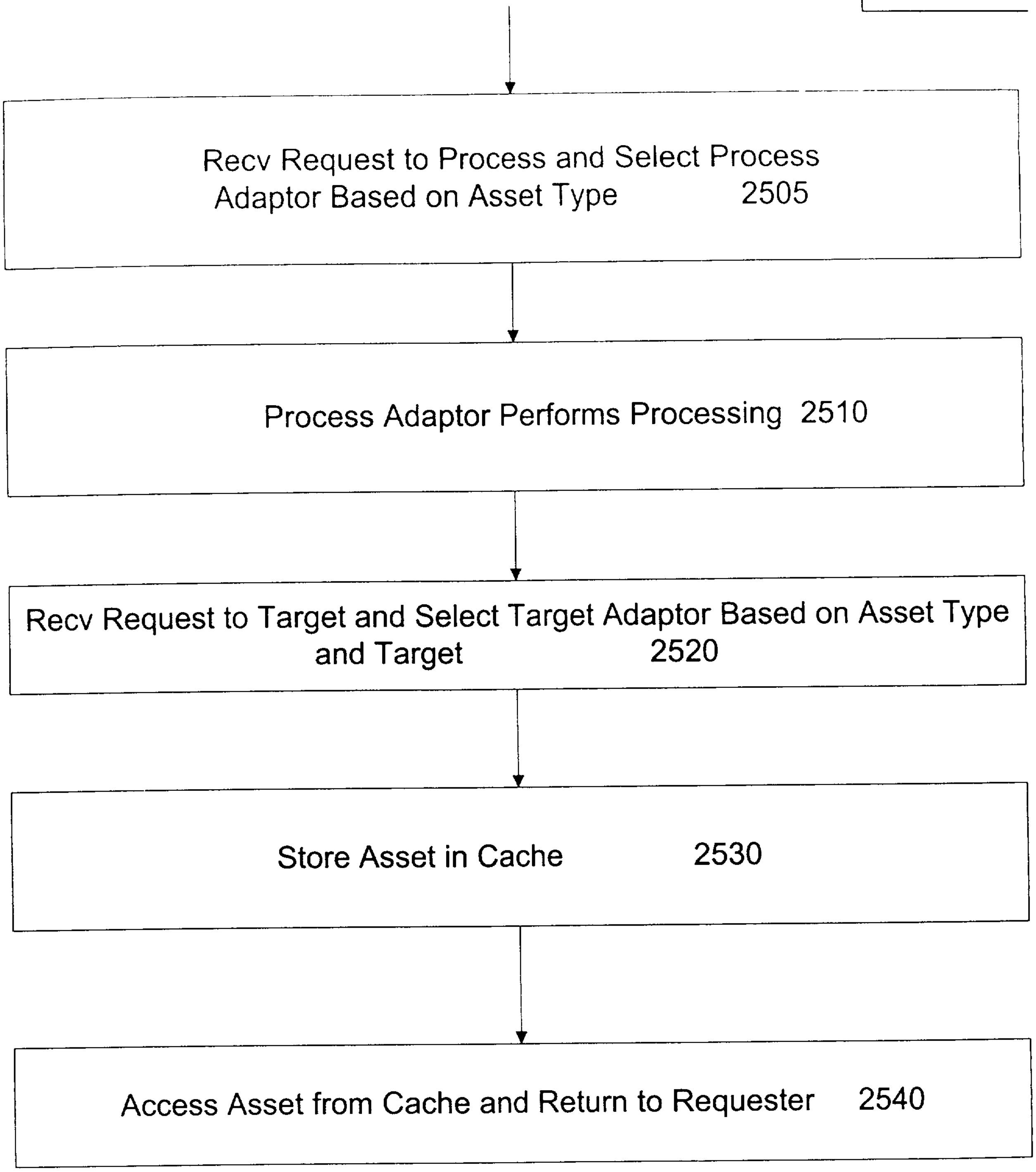
Figure 23



Computational Agent Method

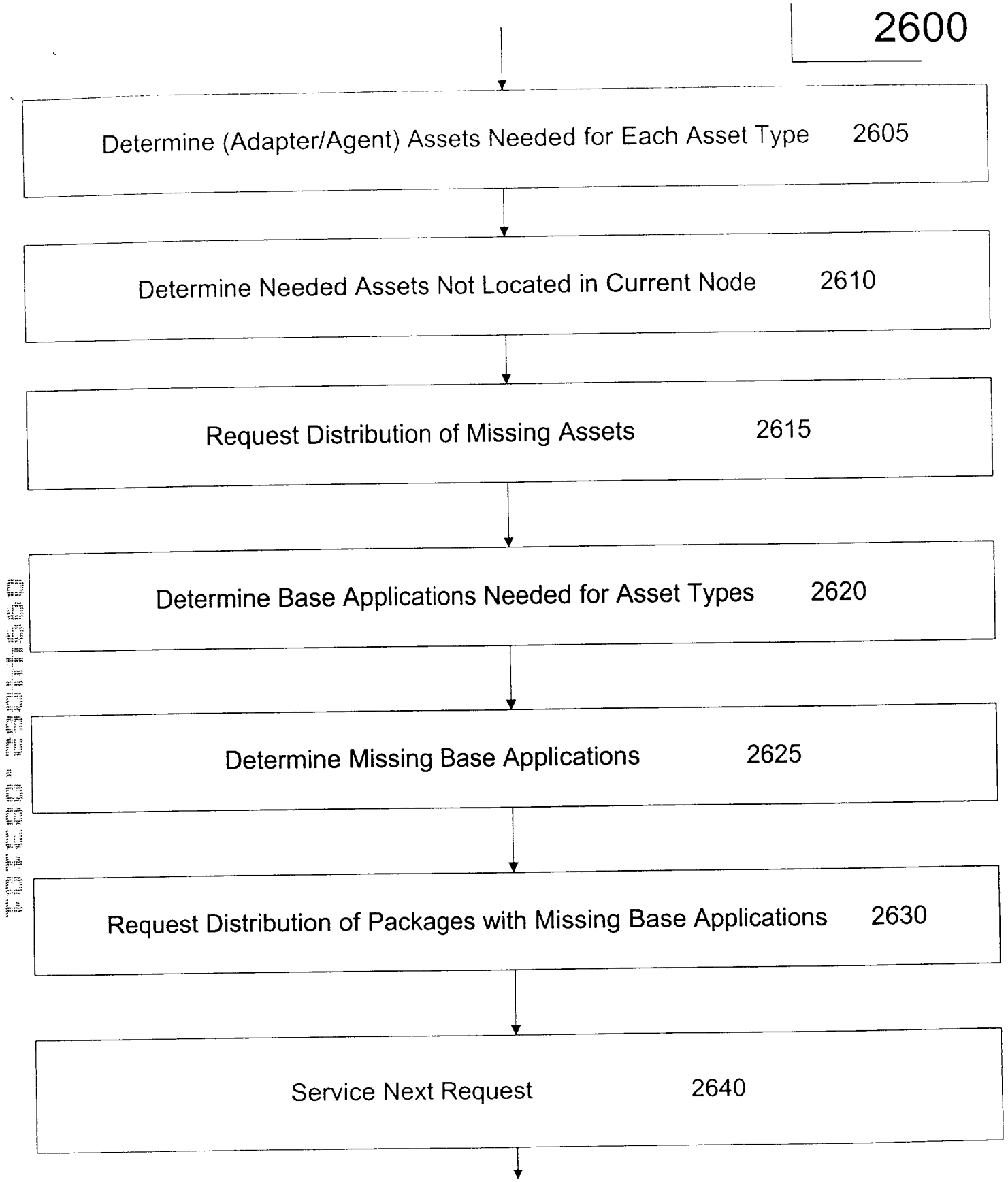
Figure 24

2500



Caching Agent Method

Figure 25



System Asset Distribution Process

Figure 26

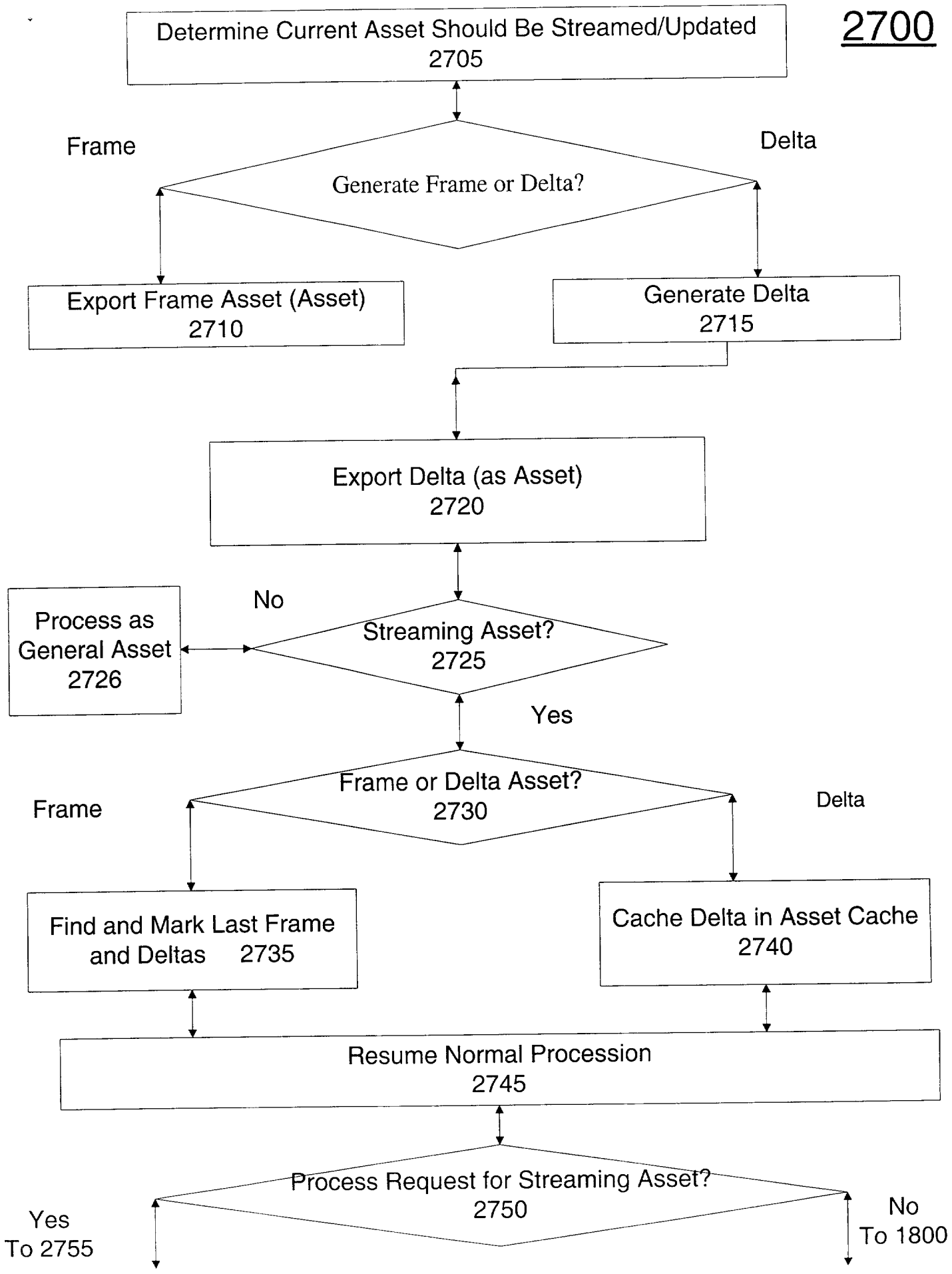


Figure 27- Sheet 1

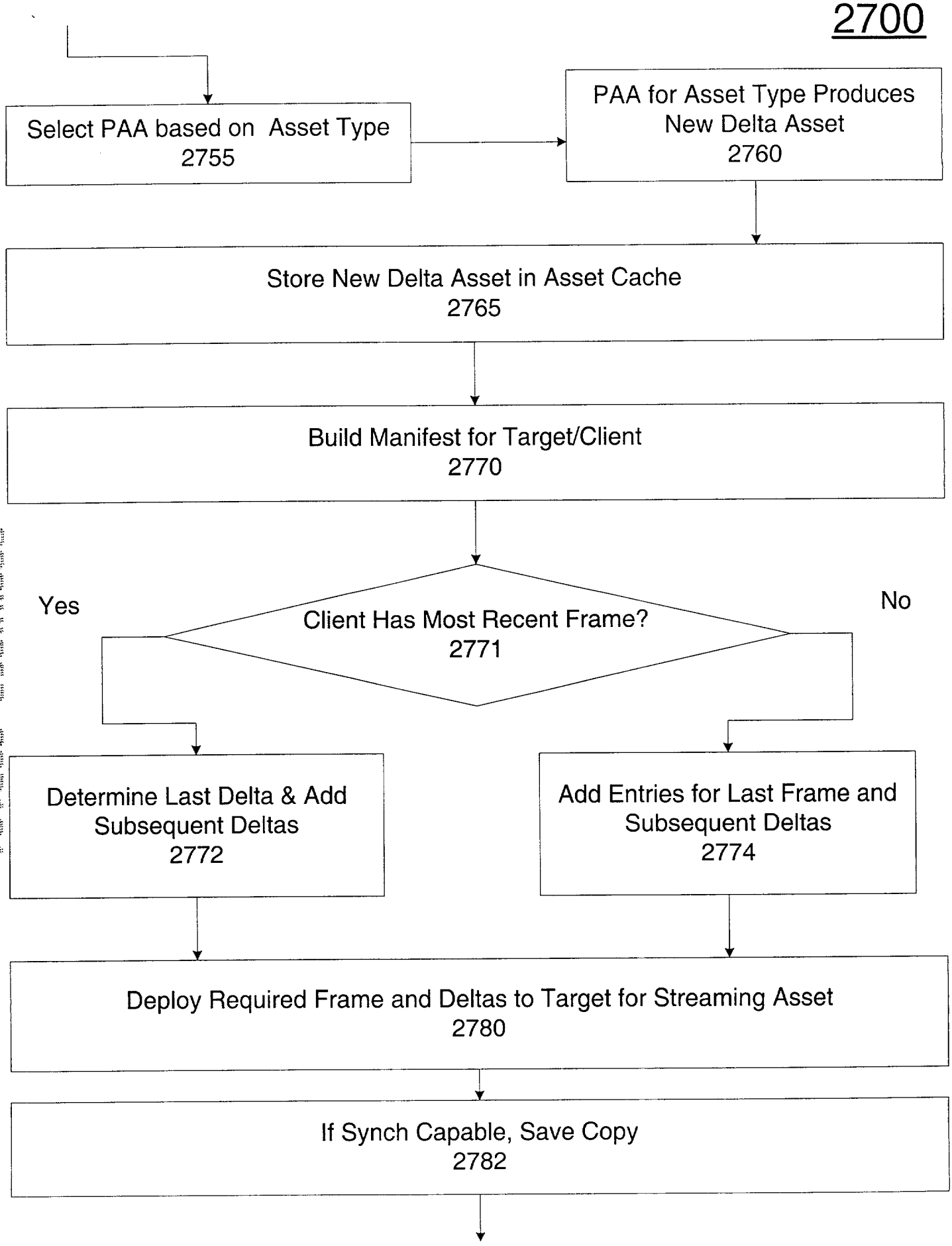


Figure 27-Sheet 2

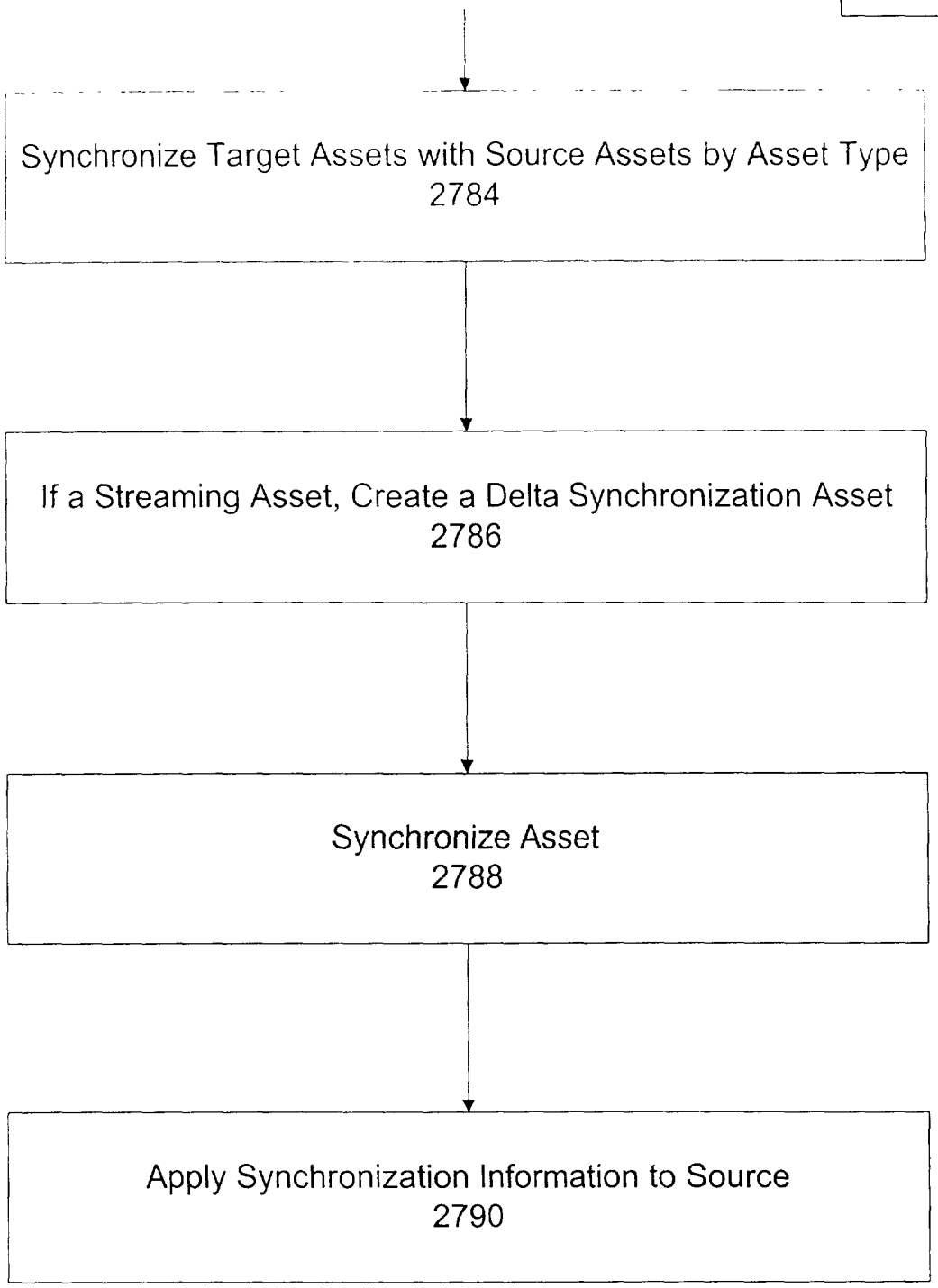
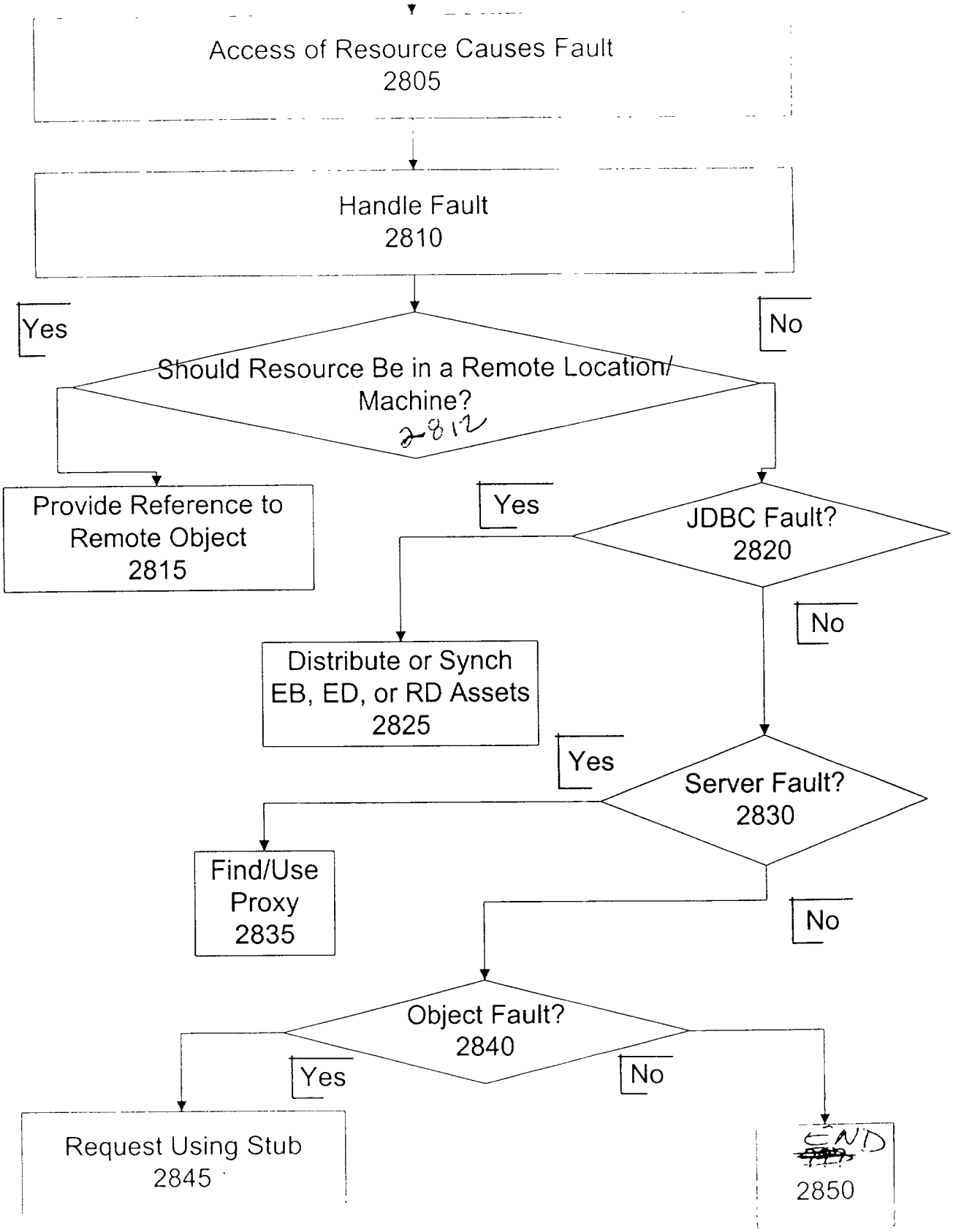
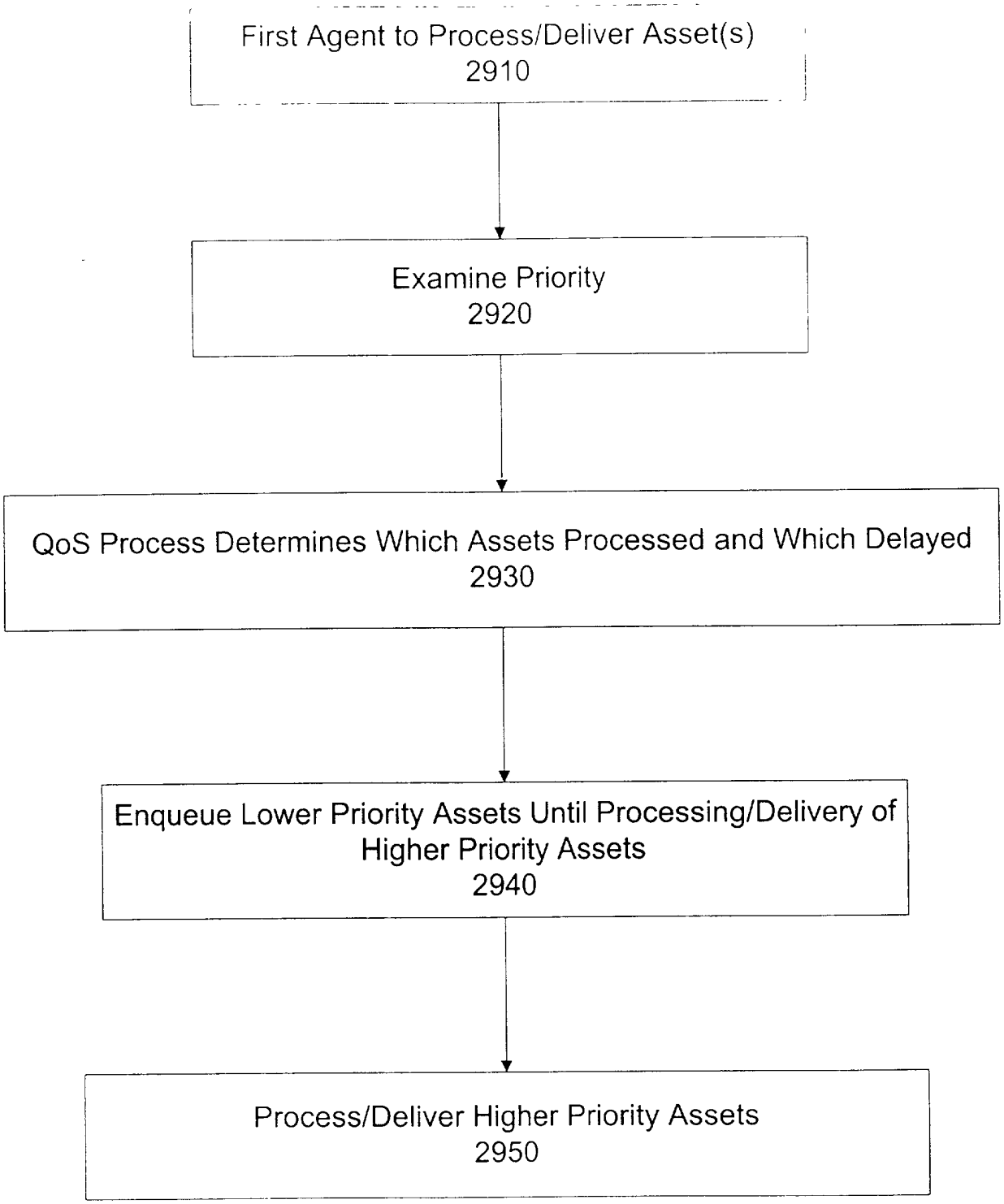


Figure 27 - Sheet 3

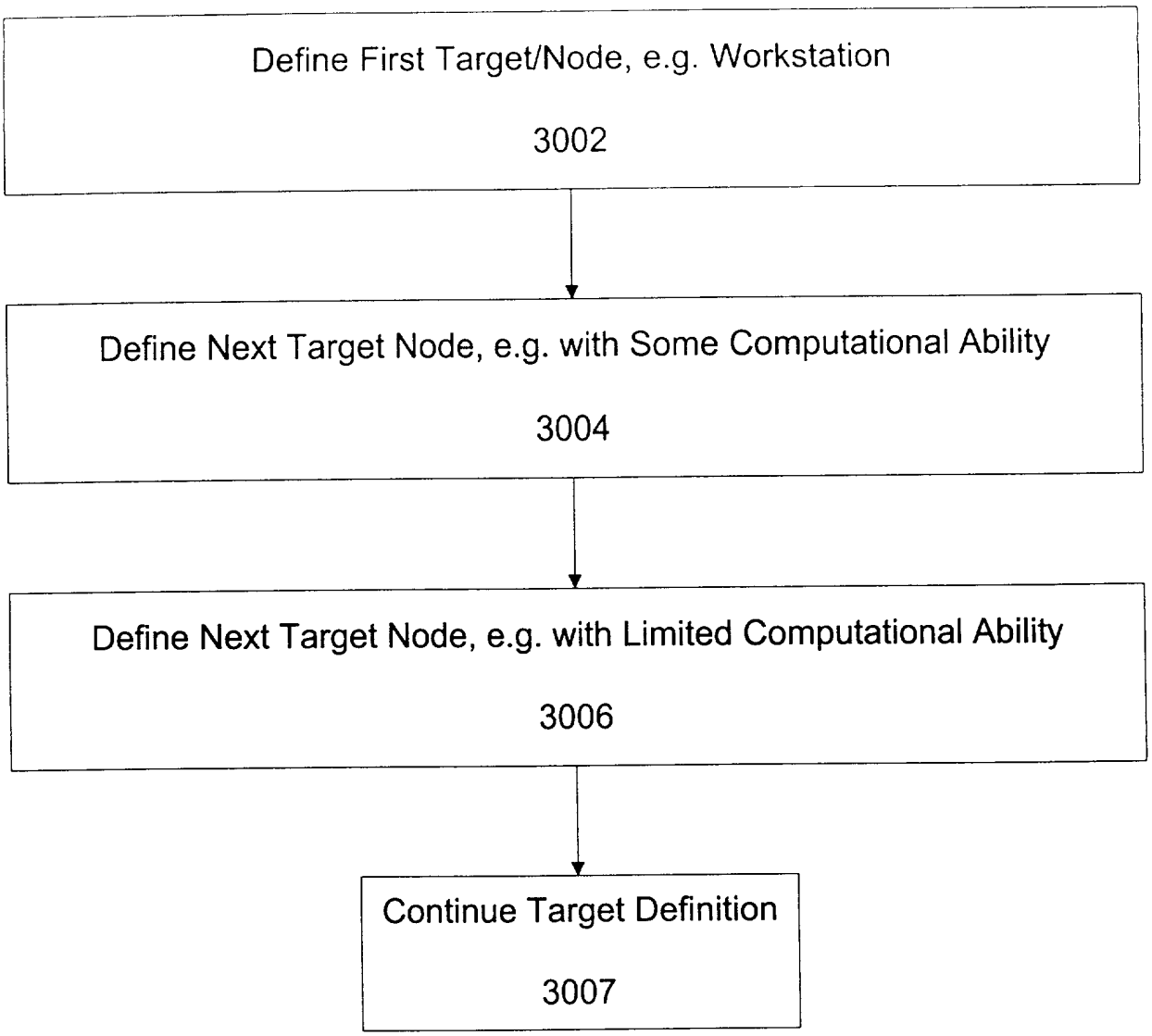


Bridging Process

Figure 28

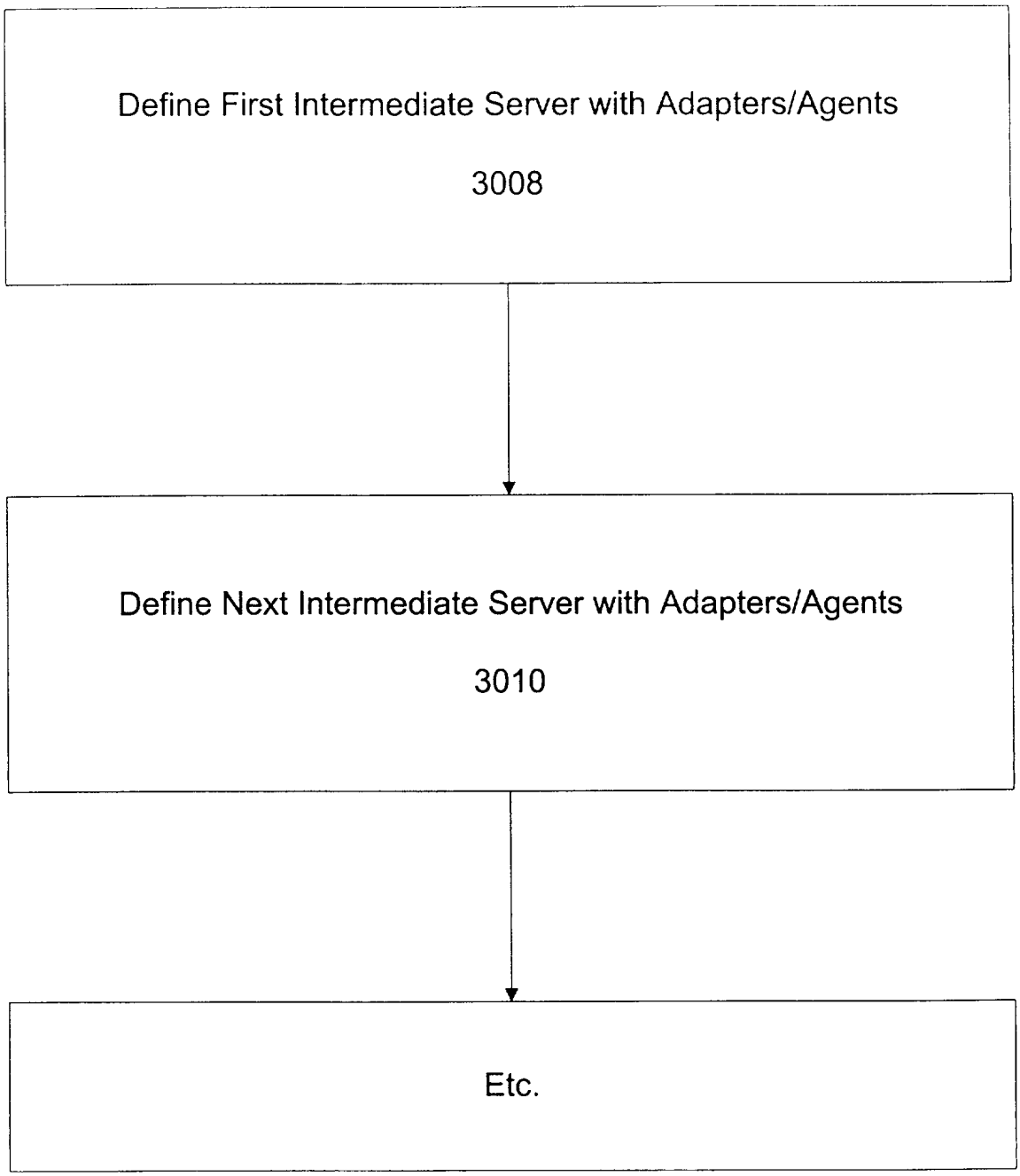


QoS
Figure 29



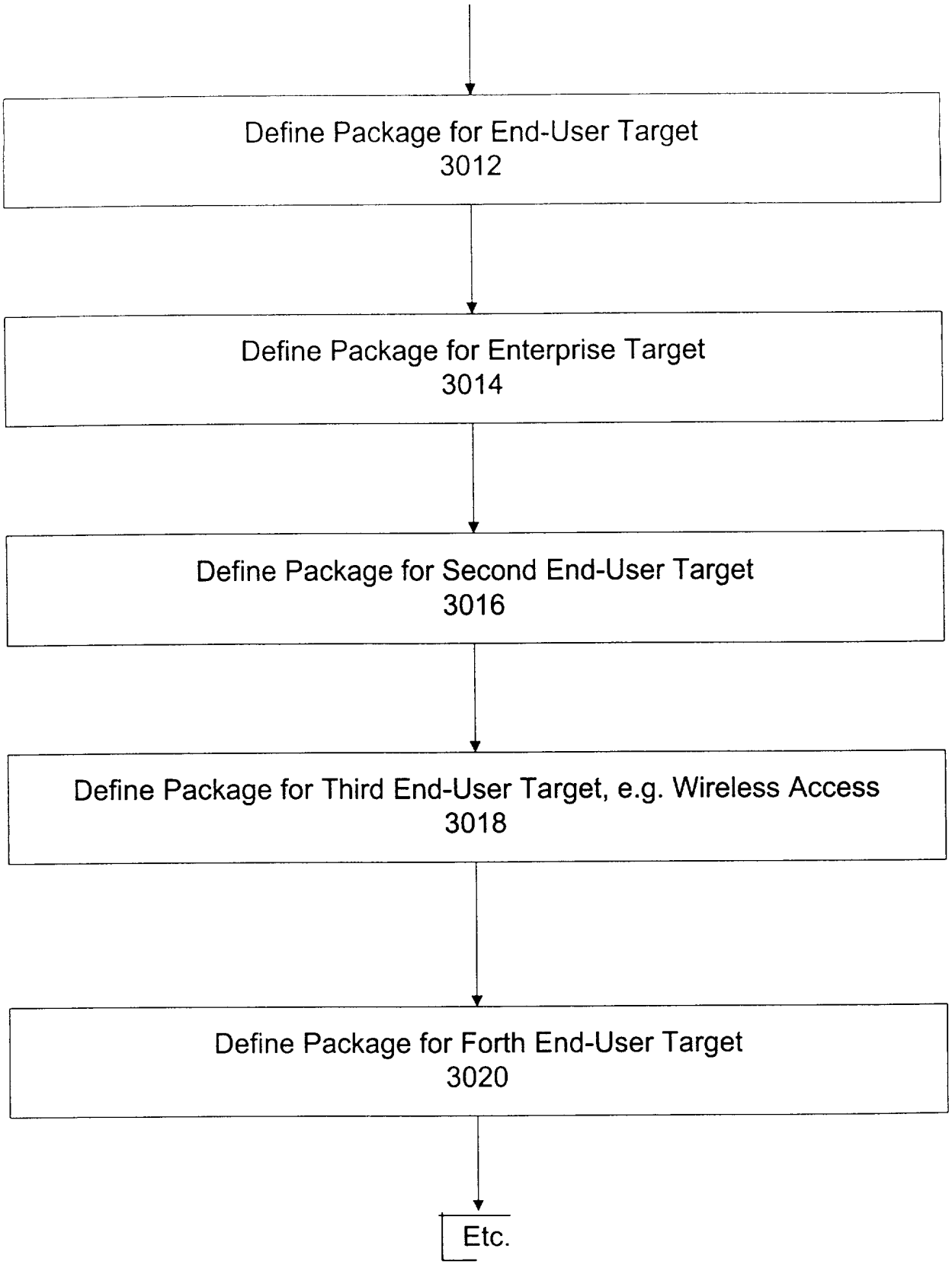
Target/Client Definition

Figure 30A



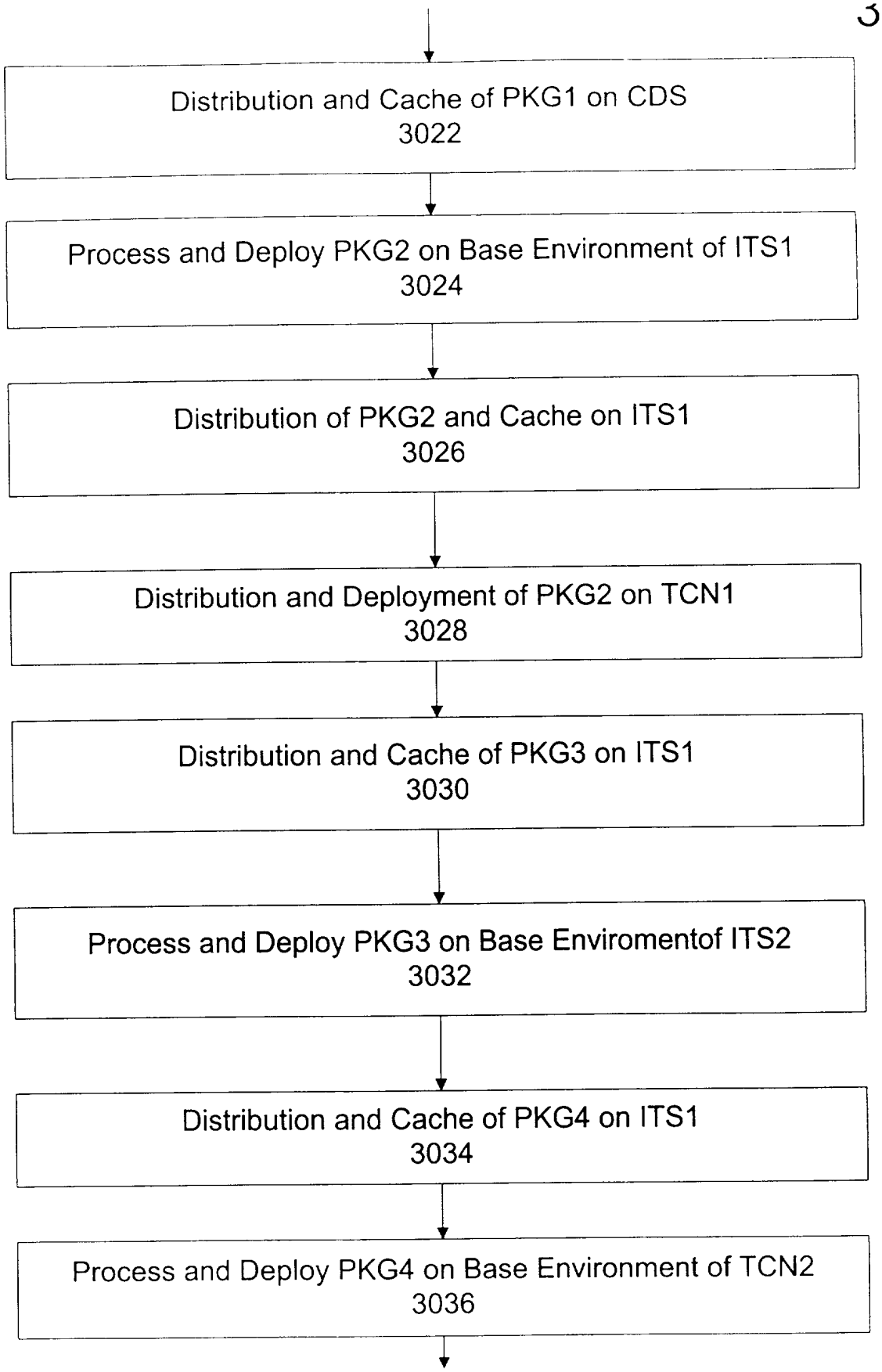
Server Definition

Figure 30B



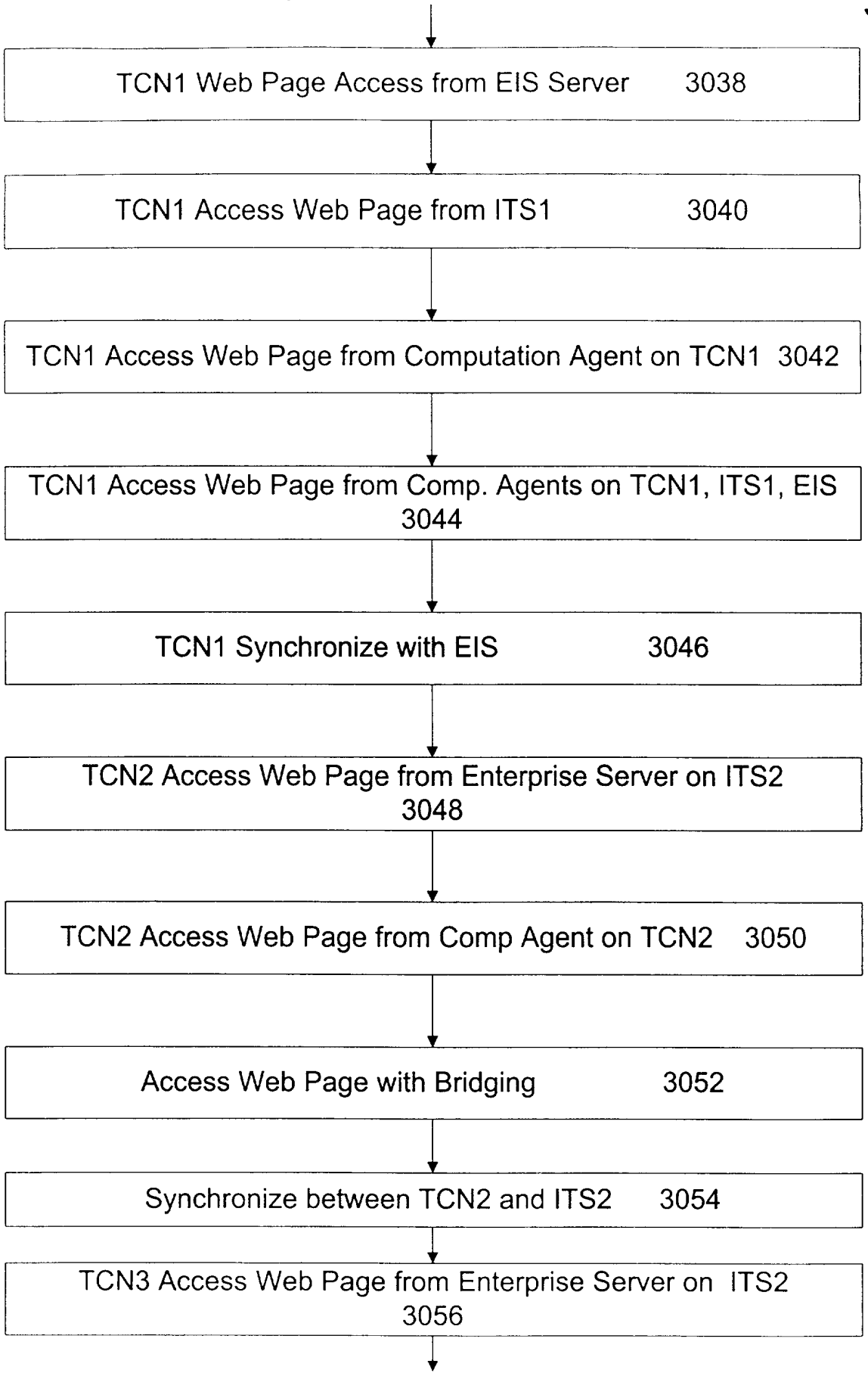
Define Packages/Applications

Figure 30C



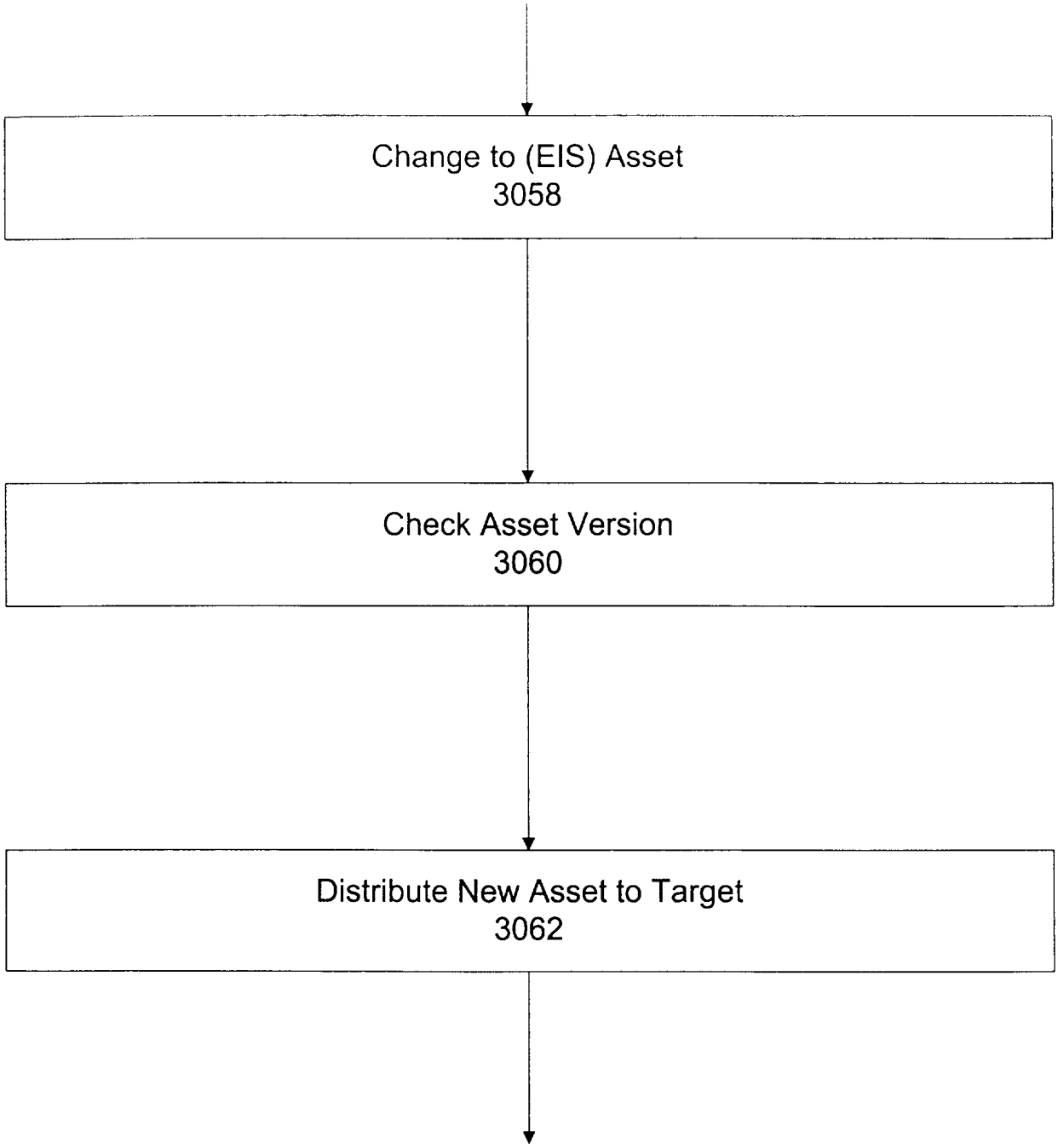
Distributing to Computational Environments

Figure 30D



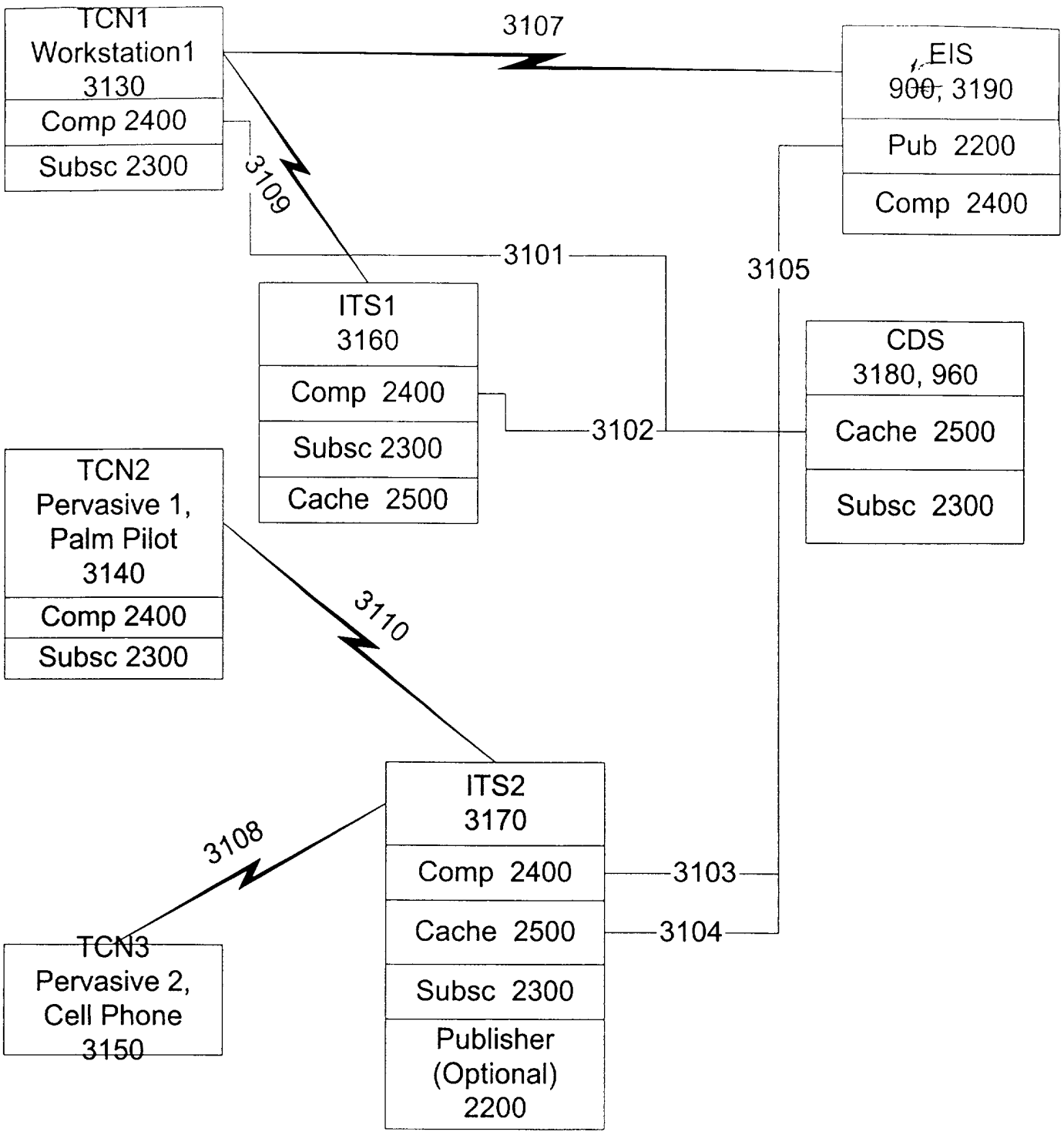
Distributed Execution of Assets

Figure 30E



Distribution of Current Assets

Figure 30F



Example Network Connections and Asset Distributio

Figure 31